

DINAMIK ENERJI

PRODUCT CATALOG

• 2024 •



**Uninterruptible
Power Supply**

Dinamik Enerji

ABOUT

Dinamik Enerji, is a company established in 2002, and it has gained a significant position in the industry over the years by manufacturing products such as uninterrupted power supplies, regulators, test benches, batteries, and rectifiers. Our aim is to increase our transaction volume abroad, thus making a considerable contribution to our country's overall export and growth.

Reliable Energy Solutions in the Energy Sector
Offering Innovative Solutions in the Energy Sector. Our products are designed to minimize the adverse effects of power outages and prevent damages caused by energy fluctuations. Committed to high-quality standards, we provide solutions to ensure reliable and uninterrupted energy supply for our customers.

Keeping customer satisfaction and needs at the forefront, we continuously expand and enhance our product portfolio. Our experienced technical team members ensure that our products remain technologically current and effective by staying updated on industry innovations.

Not only do we produce high-quality products, but we also embrace principles of sustainability and environmental responsibility. We continuously strive to improve our production processes and operations to be environmentally conscious. Additionally, we aim to take a pioneering role in energy efficiency and the utilization of renewable energy sources.

We conduct all our activities within the framework of ethical values; aiming to build long-term relationships with our customers, employees, and suppliers. Committed to business ethics, transparency, and honesty, we continue to maintain a reputable brand in the industry.



We foster a strong culture of R&D and innovation. We prioritize R&D efforts to continuously develop new technologies and products. This enables us to offer our customers the latest and most advanced technology products.

We remain committed to contributing significantly to Turkey's exports and growth. We will continue our efforts to add value to our customers, offer environmentally conscious solutions, and strive to be leaders in the industry.

Service Policy

► Quality-Oriented Service

We strive to provide our customers with high-quality products and services. We place great emphasis on quality control in our production processes and manufacture our products with consideration of various international standards. We are committed to continuously improving quality to ensure customer satisfaction and to be a reliable business partner.

► Innovation and Technology

Sektördeki gelişmeleri yakından takip ediyor, Ar-Ge faaliyetlerimize büyük önem veriyoruz. Yenilikçi ürünler geliştirerek müşterilerimize ileri teknoloji çözümler sunmayı hedefliyoruz. Teknolojik olarak güncel ve verimli ürünlerimizle müşterilerimizin enerji ihtiyaçlarını karşılamaya çalışıyoruz.

► Environmental Responsibility

Çevresel sürdürülebilirliği önemsiyor ve çevresel sorumluluklarımızı yerine getirmek için çaba sarfediyoruz. Üretim süreçlerimizde enerji verimliliğine ve çevre dostu uygulamalara öncelik veriyoruz.



650 VA – 3000 VA

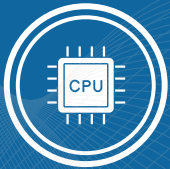
LINE INTERACTIVE UPS



- Optional LED or LCD Display
- Microprocessor-Based Digital Control
- Boost and Buck AVR for Voltage Stabilization Otomatik
- Frequency Detection
- Wide Input Voltage Range
- Power-On Safety Test
- Cold Start
- Automatic Restart when Mains Power is Restored
- Grid Phase Tracking System to Ensure Inverter Output Voltage is in Phase with Mains Power Voltage

Product visuals based on power ratings **May vary.**

FEATURES AND VALUES



With CPU Control
Maximum Security



With PFC **Power Factor Correction**



With High Efficiency
Energy Saving



Cold Start
(Battery Start)



Varies according to load
Smart Fan Speed

DNXF 650 vA	390W
DNXF800 vA	480W
DNXF 1200 vA	720W
DNXF 1500 vA	900W
DNXF 2000 vA	1200W
DNXF 3000 vA	1800W

- Smart Battery Management: Battery temperature compensation to extend battery life; three-stage charging system to reduce charging time
- Short circuit, battery overcharge/over-discharge, overload, sudden voltage surge protection system
- Automatic Charging in OFF Mode

- Optional Idle Shutdown System
- Optional RS232/USB Communication Port and RJ11/RJ45 Protection System
- Unattended Security Shutdown: System alarm and automatic Power On/Off system via RS232 or USB interface communicating with PC.

MODEL		DNXF	DNXF	DNXF	DNXF	DNXF	DNXF
Power		650 VA	800 VA	1200 VA	1500 VA	2000 VA	3000 VA
		390 W	480 W	720 W	900 W	1200 W	1800 W
Input							
Voltage	100 / 110 / 120 V: 80 ~ 150 Vac; 220 / 230 / 240 V: 162 ~ 295 Vac (145 ~ 295 Vac optional)						
Frequency	50 / 60 Hz ± 10% (auto-sensing)						
Output							
Voltage	100 / 110 / 120 Vac ± 10% or 220 / 230 / 240 Vac ± 10%						
Frequency	50 / 60 Hz ± 1% (auto-sensing)						
Waveform	Mains mode: pure sine wave; Battery mode: simulated sine wave						
Transfer Time	Typical 8 ms, 10 ms max.						
Batteries							
DC Voltage	12 V		24 V			48V	
Configuration	12 V / 7.0 Ah × 1	12 V / 8.0 Ah × 1	12 V / 7.0 Ah × 2	12 V / 8.0 Ah × 2	12 V / 9.0 Ah × 2	12 V / 9.0 Ah × 4	
Charging Time	6 ~ 8 h						
Others							
Protections	Short circuit - battery overcharge - overdischarge - overload - surge						
Communication	USB / RS232 (optional)						
moisture	20 ~ 90% RH @ 0 ~ 40°C (non-condensing)						
Noise Level	≤ 45 dB (1 m)						
Plastic Casing	Net / Gross weight (kg)	4.3 / 4.6	5.2 / 5.5	8.6 / 9.0	10.1 / 10.5	/	
	Dimensions (W × D × H) (mm)	100 × 290 × 140		140 × 345 × 170		/	
	Packaged dimensions (W × D × H) (mm)	139 × 335 × 210		198 × 406 × 245		/	
	Quantity / 20 ft	2300 pcs		1000 pcs		/	
Metal Casing	Net / Gross weight (kg)	5.1 / 5.4	6.3 / 6.6	9.6 / 10.1	11.3 / 11.7	12.9 / 13.3	19.3 / 20.6
	Dimensions (W × D × H) (mm)	95 × 320 × 160		125 × 320 × 225		125 × 380 × 225	157.5 × 452 × 211
	Packaged dimensions (W × D × H) (mm)	145 × 375 × 230		180 × 390 × 295		180 × 450 × 295	238 × 536 × 295
	Quantity / 20 ft	2000 pcs		1000 pcs		658 pcs	

DNXP 11 MODEL 1-10 kVA ONLINE UPS



The DNXP 11 Series Uninterruptible Power Supplies (UPS) are produced with PWM and IGBT technology. Ensuring high reliability with microprocessor control, these UPS units provide power factor correction and energy efficiency. With full sine wave output and a high output power factor, they deliver more power. Featuring a high-quality, unique design with an easy-to-understand large LCD screen displaying all values and the operational diagram, these UPS units are user-friendly. They operate on a 1-phase input - 1-phase output double conversion system **It is an online uninterrupted power supply**

Product visuals based on power ratings **May vary.**

FEATURES AND VALUES



Advanced **Battery Management**



With PFC **Power Factor Correction**



Energy savings with **High efficiency**

- An understandable LCD display and LED indicator showing Input / Output / Load / Battery / Frequency status."
- Advanced Battery Management (ABM)
- Compact, lightweight, quiet design EMI/RFI
- DSP Kontrollü Online UPS
- True sine wave output, Online UPS
- Double conversion (dual conversion)
- N+1 redundant parallel function (6-10 KVA)
- Maximum security with CPU control.
- PFC fonksiyonu (Güç Faktörü Düzeltimi)
- Static Bypass feature
- Cold Start (Battery start-up feature)
- 2-year full warranty
- CE, ISO 9001 certified
- 10-year spare parts warranty
- Communication via RS-232 port,
- Power factor correction at the input
- Protected against overload and short circuit
- Otomatik kendini test özelliği
- Automatic self-testing feature
- Optional SNMP support
- Variable fan speed based on load (Smart fan)
- Ability to connect additional batteries (optional)
- Free UPS management software (Shutdown and restart)

MODEL	DNXP 11			DNXP 11			DNXP 11		
Power	1 kVA / 900 W			2 kVA / 1800 W			3 kVA / 2700 W		
Input									
Rated Voltage	208 / 220 / 230 / 240 Vac								
Voltage Range	110 ~ 176 Vac (linear derating between 50% and 100% load); 176 ~ 280 Vac (no derating); 280 ~ 300 Vac (derating 50%)								
Frequency	40 ~ 70 Hz (auto-sensing)								
Power factor	≥ 0.99								
Bypass Voltage Range	- 25% ~ +15% (settable)								
Total Harmonic Distortion (THDi)	≤ 6%								
Output									
Voltage	208 / 220 / 230 / 240 Vac (settable via LCD)								
Voltage Regulation	± 1%								
Frequency	45 ~ 55 Hz or 55 ~ 65 Hz (synchronized range); 50 / 60 Hz ± 0.1 Hz (battery mode)								
Waveform	Sinusoidal								
Power factor	0.9								
Total Harmonic Distortion (THDv)	≤ 2% (linear load), ≤ 5% (non-linear load)								
Crest factor	3:1								
Overload	105% ~ 125% for 1 min, 125% ~ 150% for 30 s, > 150% for 300 ms								
Battery									
DC voltage	24 V (S)	36 V (S)	36 V (H)	48 V (S)	72 V (S)	72 V (H)	72 V (S)	96 V (S)	96 V (H)
Internal battery	2 × 9 Ah	3 × 7 Ah	/	4 × 9 Ah	6 × 7 Ah	/	6 × 9 Ah	8 × 7 Ah	/
Charging current (max.)	1 A		6 A	1 A		6 A	1 A		6 A
Recharge time	Standard model: 90% capacity restored in 3 hours; Long time model: depend on the capacity of battery								
SYSTEM									
Efficiency	≥ 90% (Mains mode)			≥ 91% (Mains mode)			≥ 92% (Mains mode)		
	≥ 85% (Battery mode)			≥ 86% (Battery mode)			≥ 87% (Battery mode)		
	≥ 95% (ECO mode)			≥ 96% (ECO mode)			≥ 97% (ECO mode)		
Transfer time	Mains mode to battery mode: 0 ms Inverter mode to bypass mode: 4 ms (typical)								
Protections	Short-circuit, overload, overtemperature, battery discharge protection and fan testing protection Com-								
munications	RS232 (standard), USB / RS485 / dry contacts / SNMP (optional)								
Display	LCD + LED								
Standards	EN 62040-1, EN 62040-2, EN 61000-3-2, EN 61000-3-3, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2, IEC 62040-2, IEC 62040-1, IEC 62040-3								
OTHER									
Operating temperature	0°C ~ 40°C								
Storage temperature	-25°C ~ 55°C (without batteries)								
Relative humidity	0 ~ 95% (non-condensing)								
Elevation	≤ 1000 m, derating 1% for each additional IP								
rating 100 m	IP 20								
Noise Level (at 1m)	≤ 50 dB								
Dimensions (W × D × H) (mm)	144 × 312 × 216	144 × 317 × 216	144 × 336 × 216	144 × 417 × 216	191 × 419 × 335	191 × 418 × 335	191 × 419 × 335		191 × 418 × 335
Net Weight (kg)	11	12.8	6	16.4	23.1	10.5	24.3	29.4	11
Gross Weight (kg)	11.3	14	7	17.8	24.7	12	25.9	31.1	12.5
Packed Dimensions (W × D × H) (mm)	230 × 402 × 315	230 × 460 × 315	232 × 417 × 318	230 × 506 × 315	277 × 500 × 435	318 × 533 × 471	277 × 500 × 435		277 × 500 × 435

MODEL	DNXP II	DNXP II
Power	6kVA / 6000 W	10kVA / 10000 W
Input		
Input wiring	Single-phasethree-wire (1Φ + N + PE)	
Rated Voltage	208 / 220 / 230 / 240 Vac	
Voltage Range	110 ~ 176 Vac (linear derating between 50% and 100% load); 176 ~ 288 Vac (no derating)	
Proportional frequency	50 / 60 Hz (auto-sensing)	
Frequency Range	40~ 70 Hz	
Power factor	≥0.99	
Bypass Voltage Range	-40% ~ +15% (settable)	
Total Harmonic Distortion (THDi)	≤5%	
Output		
Output wiring	Single-phasethree-wire (1Φ + N + PE)	
Rated Voltage	208(PF=0.9) / 220 / 230 / 240 Vac	
Voltage Regulation	± 1%	
Frequency	Synchronized to bypass in mains mode; 50 / 60 Hz ± 0.1% Hz in battery mode	
Waveform	Sinusoidal	
Power factor	1	
Total Harmonic Distortion (THDv)	≤ 1% (linear load); ≤ 4% (non-linear load)	
Crest factor	3:1	
Overload	105% ~ 110% for 10 min, 110% ~ 125% for 1 min, 126% ~ 150% for 30 s	
BATTERIES		
DC voltage	192Vdc (192 ~ 240 Vdc settable)	
Number of Batteries	16pcs (16 ~ 20 settable)	
Internal Batteries (standard model)	12 V / 7 Ah × 16	12 V / 9 Ah × 16
Charging current	Standard model: 1 A; Long time model: 5 A (default), 1~ 5 A settable; 12 A (optional)	
Recharge Time	Standard model: 90% capacity restored in 8 hours; Long time model: depend on the capacity of battery	
SYSTEM		
Efficiency	≥ 94% at 100% load, max. 95% at 60% load, ≥ 98% in ECO mode	
Transfer time	0ms	
Protections	Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage and fan failure	
Max. parallel connection count	4	
Communication	RS232(standard), USB / RS485 / dry contacts / SNMP / battery temperature compensation (optional)	
Display	LCD+ LED	
OTHER		
Operating temperature	0°C ~ 40°C	
Storage temperature	-25°C ~ 55°C (without battery)	
Relative humidity	0 ~ 95% (non-condensing)	
Altitude	≤ 1000 m, derating 1% for each additional 100 m	
IP rating	IP20	
Noise Level (at 1 m)	≤ 55 dB	≤ 58 dB
Dimensions (W × D × H) (mm)	191 × 465 × 711 (S), 191 × 465 × 350 (H)	191 × 495 × 711 (S), 191 × 495 × 350 (H)
Packed Dimensions (W × D × H) (mm)	310 × 654 × 941 (S), 318 × 595 × 475 (H)	310 × 685 × 941 (S), 318 × 617 × 475 (H)
Net Weight (kg)."	53(S), 14.5 (H)	62(S), 16.5 (H)
Gross Weight (kg).	61(S), 16 (H)	70(S), 18 (H)

Usage Fields



X-ray

Ultrasonography

Network Systems

Digital Printing



Offices

Computers

Security Systems

Medical Devices

DRT 11 MODEL 1-10 kVA ONLINE UPS



Rack Tower 1-3 kVA



Rack Tower 6-10 kVA

Product images according to power ratings **May vary.**

FEATURES



Effective software and **hardware protection**



Cold **Start**



While operating
Replaceable battery



Automatic frequency
detection

- High-frequency On-Line double conversion technology
- DSP Double Conversion Online
- Active Power Factor Correction (APFC), input power factor up to 0.99
- Output power factor: 1-3 kVA 0.9, 6-10 kVA = 1
- Wide input voltage range (110 V ~ 300 Vac) and frequency range (40 ~ 70 Hz)
- Automatic frequency detection
- "50/60 Hz frequency conversion."
- Cold start
- Smart fan speed varying according to load

- Effective software and hardware protection
- Fast and stable charging, 90% capacity restored in 4 hours loaded (standard model UPS)
- At low voltage input, linear loss, battery Reduces discharge times
- Adjustable delayed when power restored Startup
- Hot-swappable batteries during operation
- Multiple functions adjustable via LCD: output Voltage, EOD, automatic start, bypass mode, ECO Mode and frequency conversion mode
- Multi-platform communication: RS232 (standard) USB/RS485/SBMP/dry contacts (optional)

MODEL	DRT II			DRT II			DRT II		
Power	1 kVA / 900 W			2 kVA / 1800 W			3 kVA / 2700 W		
Input									
Rated Voltage	208 / 220 / 230 / 240 Vac								
Voltage Range	110 ~ 176 Vac (linear derating between 50% and 100% load); 176 ~ 280 Vac (no derating); 280 ~ 300 Vac (derating 50%)								
Frequency	40 ~ 70 Hz (auto-sensing)								
Power Factor	≥ 0.99								
Bypass Voltage Range	- 25% ~ + 15% settable								
Total Harmonic Distortion	≤ 6%								
Output									
Voltage	208 / 220 / 230 / 240 Vac (settable via LCD)								
Voltage Range	± 1%								
Frequency	45 ~ 55 Hz or 55 ~ 65 Hz (synchronized range); 50 / 60 Hz ± 0.1 Hz (battery mode)								
Waveform	Sinusoidal								
Power Factor	0.9								
Total Harmonic Distortion (THDv)	≤ 2% (linear load), ≤ 5% (non-linear load)								
Crest Factor	3:1								
Overload	105% ~ 125% for 1 min, 125% ~ 150% for 30 s, > 150% for 300 ms								
BATTERIES									
DC Voltage	24V(S)	36V(S)	36V(H)	48V(S)	72V(S)	72V(H)	72V(S)	96V(S)	96V(H)
Internal Battery	2x9Ah	3x7Ah	/	4x9Ah	6x7Ah	/	6x9Ah	8x7Ah	/
Charging Current (max)	1A		6 A	1 A		6 A	1 A	1 A	6 A
Charging Time	Standard model: 90% capacity restored in 3 hours; Long time model: depend on the capacity of battery								
SYSTEM									
Efficiency	≥ 90% (Mains mode) ≥ 85% (Battery mode) ≥ 95% (ECO mode)			≥ 91% (Mains mode) ≥ 86% (Battery mode) ≥ 96% (ECO mode)			≥ 92% (Mains mode) ≥ 87% (Battery mode) ≥ 97% (ECO mode)		
Transfer Time	Mains mode to battery mode: 0 ms; inverter mode to bypass mode: 4 ms (typical)								
Protections	Short-circuit, overload, overtemperature, battery discharge protection and fan testing protection								
Communication	RS232 (standard), USB / RS485 / dry contacts / SNMP (optional)								
Display	LCD + LED								
Standards	EN 62040-1, EN 62040-2, EN 61000-3-2, EN 61000-3-3, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2, IEC 62040-2, IEC 62040-1								
OTHER									
Operating Temperature	0°C ~ 40°C								
Storage Temperature	- 25 ~ 55°C (without batteries)								
Relative Humidity	0 ~ 95% (non-condensing)								
Elevation	≤ 1000 m, derating 1% for each additional 100 m								
IP Rating	IP 20								
Noise Level at 1m.	≤ 50 dB								
Dimensions (W × D × H) (mm)	440 x 338 x 88	440 x 430 x 88	440 x 468 x 88	440 x 430 x 88	440 x 560 x 88	440 x 468 x 88	440 x 560 x 88	440*468*88(UPS) 440*468*88(BAT)	440 x 468 x 88
Packed Dimensions (W × D × H) (mm)	545 x 428 x 194	545 x 560 x 201	545 x 592 x 201	545 x 560 x 201	545 x 690 x 201	545 x 592 x 201	545 x 690 x 201	592*545*198(UPS) 597*545*198(BAT)	545 x 592 x 201
Gross Weight (kg)	10.6	15.5	7.6	18.7	25.6	9.7	26.8	9.45(UPS) 27.2(BAT)	10.1
Gross Weight (kg)	11.3	18.6	11.1	21.8	25.8	13.2	29.7	12.97(UPS) 30.2(BAT)	13.6

MODEL	DRT 11	DRT 11
Power	6 kVA / 6 W	10 kVA / 10 W
Input		
Input Wiring	Single-phase three-wire (1 Φ + N + PE)	
Rated Voltage	208 / 220 / 230 / 240 Vac	
Voltage Range	110~ 176 Vac (linear derating between 50% and 100% load); 176 ~ 288 Vac (noderating)	
Proportional Frequency	50 / 60 Hz (auto-sensing)	
Frequency Range	40~ 70 Hz	
Power Factor	≥ 0.99	
Bypass Voltage Range	-40% ~ +15% (settable)	
Total Harmonic Distortion (THD)	$\leq 5\%$	
Output		
Output Wiring	Single-phase (L-N)	
Rated Voltage	208 (PF=0.9) / 220 / 230 / 240 Vac	
Voltage Range	$\pm 1\%$	
Frequency	Synchronized to bypass in mains mode; 50 / 60 Hz $\pm 0.1\%$ Hz in battery mode	
Waveform	Sinusoidal	
Power Factor	1	
Total Harmonic Distortion (THD)	$\leq 1\%$ (linear load); $\leq 4\%$ (non-linear load)	
Crest Factor	3:1	
Overload	102%~ 110% for 10 min, 110% ~ 125% for 1 min, 125% ~ 150% for 30 s	
BATARYA		
DC Voltage	192Vdc (192 ~ 240 Vdc settable)	
Number of Batteries	16pcs (16 ~ 20 settable)	
Internal Battery (Standard Model)	12V / 7 Ah \times 16	12V / 9 Ah \times 16
Charging Current	Standard model: 1 A; Long time model: 5 A (default), 1 ~ 5 A settable; 12 A (optional)	
SYSTEM		
Efficiency	$\geq 94\%$ at 100% load, max. 94.5% at 60% load, $\geq 98\%$ in ECO mode	
Transfer Time	0ms	
Protections	Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage and fan failure	
Max. Parallel Connection Count	4	
Communication	RS232 (standard), USB / RS485 / dry contacts / SNMP / battery temperature compensation (optional)	
Display	LCD+ LED	
OTHER		
Operating Temperature	0°C ~ 40°C	
Storage Temperature	-25°C ~ 55°C (without battery)	
Relative Humidity	0 ~ 95% (non-condensing)	
Altitude	≤ 1000 m, derating 1% for each additional 100 m	
IP Rating	IP20	
Noise Level at 1m	≤ 55 dB	≤ 58 dB
Dimensions (W \times D \times H) (mm)	440 \times 580 \times 88 (H), 440 \times 660 (S) \times 176	
Packed Dimensions (W \times D \times H) (mm)	514 \times 696 \times 168 (H), 554 \times 792 \times 418 (S)	
Net Weight (kg)	12 (H), 58 (S)	14 (H), 63 (S)
Gross Weight (kg)	14 (H), 68 (S)	16 (H), 73 (S)

Usage Fields



Server Sistemleri

Network Systems

Datacenter



Security Systems

Telecommunications

Alarm Systems

DNXP 31 MODEL 10-20 kVA ONLINE UPS



- High input power factor 0.99
- Low input current harmonic distortion (THDI) <5%
- Up to 94% high efficiency
- Ability to start from battery
- Static and maintenance bypass feature
- Overload and short circuit protection system
- Standard emergency power off (EPO)
- 192 event log (4500 alarms)
- Regenerative load feature
- Calendar and clock
- Advanced automatic battery testing system
- Thermal compensation battery charging system

Product images according to power values **May vary.**

FEATURES AND VALUES



Minimum
Space Occupancy



Short Circuit
Protection System



Standard **Emergency**
Shutdown (EPO)

DNXP 31 10 kVA	10 kW
DNXP 31 15 kVA	15 kW
DNXP 31 20 kVA	20 kW



Modem Protection
Feature



Load-Dependent
Smart Fan Speed



High
Efficiency

- Ability to configure modem settings for dial-up connection feature
- RS232 and dry contact interface for remote monitoring
- 3 DSP controlled modular structure
- Isolation transformer at input and output according to application option
- SNMP compatible communication option
- Minimum space occupancy
- MODBUS compatible communication option
- Compliance with international standards (EC directive EN 62040)
- 2 years full warranty and 10 years spare parts warranty
- With CE, TSE, ISO9001 and ISO14001 quality assurance system Production
- Numerically controlled structure

MODEL	DNXP 31		DNXP 31	DNXP 31
Strength	10 kVA / 10 kW		15 kVA / 15 kW	20 kVA / 20 kW
INPUT				
Input Connection	Three-phase five-wire (3Φ + N + PE)			
Rated Voltage	380 / 400 / 415 Vac (220 Vac)			
Voltage Value	190 ~ 305 Vac (linear derating between 50% and 100% load); 305 ~ 499 Vac (no derating)			
Rated Frequency	50 / 60 Hz (auto-sensing)			
Frequency Value	40 ~ 70 Hz			
Power Factor	≥0.99			
Bypass Voltage Value	-40% ~ +15% (settable)			
Total Harmonic Distortion (THDi)	≤5%			
OUTPUT				
Output Connection	Single-phase three-wire (1Φ + N + PE)			
Rated Voltage	208 (PF=0.9) / 220 / 230 / 240 Vac			
Voltage Regulation	±1%			
Frequency	Synchronized to bypass in mains mode; 50 / 60 Hz ± 0.1% Hz in battery mode			
Waveform	Sinusoidal			
Power Factor	1			
Total Harmonic Distortion (THDv)	≤ 1% (linear load); ≤ 3% (non-linear load)			
Peak Factor	3:1			
Overload	105% ~ 110% for 10 min, 110% ~ 125% for 1 min, 126% ~ 150% for 30 s			
BATTERIES				
DC Voltage	192Vdc (192 ~ 240 Vdc settable)			
Battery Number	16 pcs (16 ~ 20 settable)			
Internal Battery (standard model)	12V / 9 Ah × 16	/	/	/
Charging Current	Standard model: 1 A; Long time model: 5 A (default), 1 ~ 5 A settable; 10 A (optional)			
Charging Time	Standard model: 90% capacity restored in 8 hours; Long time model: depend on the capacity of battery			
SYSTEM				
Productivity	≥94% at 100% load, max. 95% at 60% load, ≥ 98% in ECO mode			
Transfer Time	0ms			
Protections	Short-circuit, output overload, overtemperature, battery low voltage, overvoltage / undervoltage and fan failure			
Maksimum Paralel Bağlantı Sayısı Connections	4			
Communication	RS232 (standard), USB / RS485 / dry contacts / SNMP / battery temperature compensation (optional)			
Screen	LCD+ LED			
ENVIRONMENTAL				
Operating temperature	0°C ~ 40°C			
Storage Temperature	-25°C ~ 55°C (without battery)			
Relative humidity	0 ~ 95% (non-condensing)			
Altitude	≤1000 m, derating 1% for each additional 100 m			
IP Rating	IP20			
Noise Value (1m)	≤ 58 dB			
Dimensions (W×D×H) (mm)	191 × 495 × 711 (S) 191 × 495 × 350 (H)	191 × 495 × 515 (H)		
Packaging Dimensions	310 × 685 × 941 (S) 318 × 617 × 475 (H)	285 × 593 × 618 (H)		
Net Weight (kg)	64(S), 18.5 (H)	26.5 (H)		
Gross Weight (kg)	72(S), 20 (H)	28 (H)		

DNXS 33 MODEL 10-200 kVA ONLINE UPS



- Advanced dual-core DSP control technology and 3-level technology
- Output power factor 1.0
- Active Power Factor Correction Technology, input power factor up to 0.99
- System efficiency increased to 96%, energy saving rate doubled
- Up to 99% operating efficiency in ECO mode
- Dual input design supporting independent bypass
- Advanced digital and parallel technology providing higher reliability than a single system
- Wide input voltage range, 50 / 60 Hz auto-sensing frequency
- 50 Hz / 60 Hz frequency conversion mode
- Compact interior layout, small footprint
- Digitally controlled charger (Max. A)

Product images according to power values **May vary.**

FEATURES AND VALUES

- Fan speed changes intelligently according to temperature, reducing noise and extending service life
- Has strong fault tolerance, a damaged blade takes 50% of the load, two damaged fans take 30% of the load
- Conformal coating technology that enables the UPS to operate for a long time in harsh environments
- Effective hardware and software protection, robust self-diagnostic functionality, lots of event logs for the future
- Linear step-down at low voltage input reducing discharge times
- Flexible battery configuration setting, selectable numbers: 30 ~ 44 pcs
- Turning on UPS with battery when mains power is not available (Cold start)
- Zero switching time for UPS power supply mode ensures uninterrupted output when mains power is unstable
- Adjustable delayed start time when mains power is restored
- 5 inch LCD color touch screen, friendly human and machine interface
- Powerful background software for parameter configuration and online upgrade
- Advanced multi-platform communication for UPS monitoring: RS232, USB, RS485, dry contacts, SNMP card, Wi-Fi card and GPRS card
- Intelligent battery management, automatic equalization and variable charge control, charge rest control increase charger reliability and extend battery life
- Options and accessories: RS232, USB, RS485, parallel, dry contacts, EPO and battery temperature compensation interfaces

MODEL	DNX 33	DNX 33	DNX 33	DNX 33	DNX 33	DNX 333
Strength	10kVA/10kW	15kVA/15kW	20kVA/20kW	30kVA/30kW	40kVA/40kW	60kVA/60kW
INPUT						
Rated Voltage	380/400/415Vac (3Φ + N + PE)					
Voltage Range	304~478Vac, full load228V~304 Vac, load decrease linearly according to the min phase voltage					
Proportional Frequency	50/60Hz					
Frequency range	40~70 Hz					
Power Factor	>0.99					
Bypass Voltage Range	Selectable, default -20%~+15%Up limited: +10%, +15%, +20%, +25%; Down limited: -10%, -15%, -20%, -30%, -40%					
Bypass Frequency Range	Selectable, ±1Hz, ±3Hz, ±5Hz					
Input Current THDi	<3% (linear load)					
Bypass Overload	125%: long term operation; 125%~130%: 10min; 130%~150%: 1min; 150%~400%: 1s; >400%, less than 200ms					
OUTPUT						
Rated Voltage	380/400/415Vac(3Φ + N + PE)					
Voltage Sensitivity	±1% (linear load)					
Frequency	Synchronized with utility in mains mode, 50/60Hz±0.1% in battery mode					
Waveform	Sinusoidal					
Power Factor	1					
Total Harmonic Distortion (THDv)	<1% (full linear load); <3% (full non-linear load according to IEC/EN62040-3)					
Peak Factor	3:1					
Overload	<110%, 60min; 110%~125%,10min; 125%~150%,1min; >150%, 200ms					
BATTERIES						
DC Voltage	Long time model: ±240VDC(selectable, 32~40pcs)					
Standard Model Battery Voltage	(10+10)x9AH	(20+20)x7AH	(20+20)x9AH	(15+15)x9Ah x 2 strings	/	
Charging Current	10A max.			15A max.	20A max.	
Charge Voltage Accuracy	1%					
SYSTEM						
viewing	5 inch touch screen					
Yield	95% max.			96% max.		
Transfer Time	0ms					
Interface	Standard:RS232, RS485, USB,Battery cold startOption:Programmable dry contact,SNMP,Parallel kit					
ENVIRONMENT						
Operating temperature	0°C ~ 40°C					
Storage Temperature	-40°C~70 °C					
Relative humidity	0 ~ 95% (non condensing)					
Noise Level at 1M	58dB max.			62dB max.		
Altitude	<1000m, load derated 1% per 100m from 1000 ~ 2000m					
ENVIRONMENTAL						
Dimensions (W×D×H)(mm)	250x720x560(S)250x720x560(H)	250x800x700(S) 250x720x56(H)		250x840x930(S) 250x840x650(H)	250x720x560(H)350x800x1280(S)	250x720x560(H)
Packaged Dimensions (W×D×H)(mm)	350x800x722(S) 350x800x718(H)	350x900x862(S) 350x800x718(H)		350x950x1102(S) 350x980x810(H)	350x800x718(H)450x900x1400(S)	350x800x718(H)
Net Weight (kg)	82(S) 31(H)	131(S) 33(H)	145(S) 33(H)	215(S) 42(H)	42(H) 300(S)	48(H)
Gross Weight (kg)	93(S) 40(H)	142(S) 42(H)	156(S) 42(H)	227(S) 52(H)	52(H) 310(S)	58(H)

MODEL	DNXS 33	DNXS 33	DNXS 33	DNXS 33	DNXS 33	DNXS 33	DNXS 33
Strength	40 kVA/40 kW	60 kVA/60 kW	80 kVA/80 kW	100 kVA/100 kW	120 kVA/120 kW	160 kVA/160 kW	200 kVA/200 kW
INPUT							
Input Cabling	Three-phase five-wire (3Φ + N + PE)						
Rated Voltage	380 / 400 / 415 Vac						
Voltage Range	304 ~ 485 Vac (no downgrading), 138 ~ 304 Vac (linear downgrading between 40% ~ 100% load)						
Frequency	50 / 60 Hz (auto-sensing)						
Frequency range	40 ~ 70 Hz						
Power Factor	≥ 0.99						
Bypass Voltage Range	-60% ~ +20% (settable)						
Total Harmonic Distortion (THDi)	≤ 3%						
OUTPUT							
Output Wiring	Three-phase five-wire (3Φ + N + PE)						
Rated Voltage	380 / 400 / 415 Vac						
Voltage Regulation	±1%						
Frequency	Synchronized with utility in mains mode, 50 / 60 Hz ± 0.1% in battery mode						
Waveform	Sinusoidal						
Power Factor	1						
Total Harmonic Distortion (THDv)	≤ 1% (linear load); ≤ 4% (non-linear load)						
Peak Factor	3:1						
Overload	105% ~ 110% for 60 min, 110% ~ 125% for 10 min, 125% ~ 150% for 1 min, > 150% for 0.2 s						
BATTERIES							
DC Voltage	± 192 Vdc (± 180 ~ ± 264 Vdc settable) 40 kVA built-in battery: ± 240 Vdc (80 pcs 9 Ah/12 V)						
Number of Batteries	32 pcs (30 ~ 44 pcs settable)						
Charge Current (max)	12 A	24 A		36 A		48 A	
Charging Time	Depend on the capacity of battery						
SYSTEM							
Yield	Max. 96% in online mode, 99% in ECO mode						
Transfer Time	0 ms						
Protections	Short-circuit, overload, overtemperature, excessive low battery, overvoltage, undervoltage, fans failure						
Max Number of Parallel Connections	4						
Communication	Standard configuration: RS232, USB, RS485, RJ45, dry contacts; Optional configuration: SNMP card, Wi-Fi card, GPRS card						
viewing	5 inches colorful LCD touch screen						
ENVIRONMENTAL							
Operating temperature	0°C ~ 40°C						
Storage Temperature	-25°C ~ 55°C (without battery)						
Relative humidity	0% ~ 95% (non-condensing)						
Altitude	≤ 1000 m; above 1000 m, downgrading 1% for each additional 100 m						
IP Rating	IP 20						
Noise Level(1m)	≤ 65 dB						
Dimensions (W×D×H) (mm)	360 × 850 × 885	360 × 850 × 950	360 × 850 × 1200	440 × 850 × 1200		600 × 850 × 1200	
Packaged Dimensions (W × D × H) (mm)	450 × 940 × 1055	450 × 940 × 1120	450 × 940 × 1370	530 × 940 × 1370		700 × 950 × 1370	
Net Weight (kg)	95,295 (built-in BAT)	130	156	158	198	250	300
Gross Weight (kg)	110, 310 (built-in BAT)	145	172	180	220	275	325

Usage areas



Factory



CNC - Laser

Hospital



Rail systems



Airports

Printing

DNXP 33 MODEL 10-300 kVA ONLINE UPS

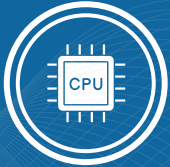


Product images according to power values

Mayvary.

- High input power factor 0.99
- Low input current harmonic distortion (THDI) < 5%
- High efficiency up to 94%
- Battery start feature
- Static and maintenance bypass feature
- Overload and short circuit protection system
- Standard emergency shutdown (EPO)
- 192 event logs (4500 alarms)
- Regenerative load feature
- calendar and clock
- Advanced automatic battery testing system
- Heat compensated battery charging system
- Ability to set modem for dial-up connection
- RS232 and dry contact interface for remote monitoring

FEATURES AND VALUES



True DSP
Controlled Processor



High Output
PowerFactor



Energy saving with
High Efficiency



Ev / Ofis



Veri Merkezi



Medikal



Endüstri



Ulaşım



Acil Durum



Compatible with
Generator with Soft Start



Easy synchronization
with external sources



Double Cycle
double conversion

- High charging capacity
- Charge/discharge current indicator
- Advanced remote monitoring options
- Isolation transformer option at input and output according to the application
- MODBUS compatible communication option
- High charging capacity
- Charge/discharge current indicator
- Advanced remote monitoring options

- Minimum footprint
- Economic working system (ECONOMODE)
- Minimum electronic components
- Output current limitation
- Advanced diagnostics
- 2 years full warranty and 10 years spare parts warranty
- Production with CE, TSE, ISO9001 and ISO14001 quality assurance system

MODEL	DNXP33	DNXP33	DNXP33	DNXP33	DNXP33	DNXP33	DNXP33	DNXP33	DNXP33	DNXP33	DNXP33	DNXP33	DNXP33	DNXP33			
Power (kVA)	10	15	20	30	40	60	80	100	120	160	200	250	300	400			
INPUT																	
Voltage Tolerance	220/280 VAC (230/400 VAC) 3 Phase + N, +%20, -%25																
By-pass Voltage and Tolerance	220/280 VAC (230/400 VAC) 3 Phase + N, +/-%10																
Power Factor	>0.98-0.99																
Input Frequency and Distortion)	< %5																
Input Frequency and Tolerance	50 Hz / 60 Hz (adjustable) +/- %5																
OUTPUT																	
Power (kW)	8	12	16	24	32	48	64	80	96	144	180	225	270	360			
Power Factor	0.8									0.9							
Voltage and Tolerance	380-400 VAC 3 P, 4 N, +Earth, +/-1% (240/415 opsiyonel)																
Frequency	50 Hz / 60 Hz (adjustable)																
Frequency Tolerance	Synchronous Network +/- 1% / Self Employment: +/- 0,2% (adustable)																
Efficiency (100% load)	up to %94																
Peak Factor	03:01																
Overload Protection	%100 - %125 load: 10 mins.																
	%125 - %150 load: 1 mins.																
	>%150 load: static by-pass																
THD	< %3 linear load (non linear load < %5)																
BATTERIES																	
Type	Full-closed Dry Type Maintenance Free																
Battery Quantity	62									60							
Charging Voltage	2 x 405 VDC																
Discharge Voltage	2 x 300 VDC																
Battery Protection	Otomatik devre kesici																
Battery Test	Standart																
GENERAL																	
User interface	LCD Panel, Mimic led panel, 5 vektor buttons, Buzzer, Optional Graphical Color Touch Screen																
Indicator	Phase -N Voltage, Phase-Phase Voltage, Current, Power, Crest Factor, Frequency, PF, Service Time																
Communication	2xRS232 Serie Port, 4 standard and 8 optionel dry alarm contact																
Entries	EPO (kill switch) input, Interactive panel battery input, Generator Input																
Software	Standard Administrative UPS Software (3 user + 1 server management)																
Alarm Recording	Standard: 192 Event Date and Time, (512 event optional)																
Protection	Overheating protection module, Over Current, high temperture alarm																
Operating Temperature Range	0°C - 40°C																
Protection Class	IP20																
Working Height	90% max (non condensed) <1000m above sea level																
Weight (without battery)(kg)	100	114	116	122	180	202	252	285	405	522	570	735	750				
Size (L*W*H) (mm)	400 x 780 x 1070				570 x 900 x 1300			670 x 730 x 1630			850 x 780 x 1820		970 x 850 x 1950			1340 x 1080 x 1950	
SETTINGS																	
INPUT	110/208 VAC																
OUTPUT	110/208 VAC																
Transformer	Galvanic isolation transformer (input and output)																
Software	Soft Admin Multi UPS monitoring, Soft Server 50-100-200 User, DLOG log loader																
Adapters	SNMP, MODBUS, RS485, Remote Monitoring Panel																
Parallel Operation	N+1 (up to 4 pcs.)																

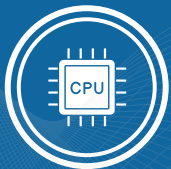
DNXT 33 MODEL 10-300 kVA ONLINE UPS



- IGBT rectifier
- IGBT Inverter
- DSP controlled processor
- Active harmonic correction (THDi \leq 4%)
- Active harmonic correction (THDi \leq 4%)
- Wide input voltage range
- Working in harmony with the generator
- Backup and power increase thanks to its paralleling feature
- Intelligent battery charging system
- Easy synchronization with external sources
- Static and manual bypass as standard
- Standard isolation transformer
- Communication with computer and network systems (SNMP)
- Increased battery feeding time
- Low installation and operating cost
- Comply with ISO 9001, CE, ISO 14001 standards

Product images according to power values **May vary.**

FEATURES AND VALUES



DSP controlled
processor



Working in harmony
with the generator



Standard emergency
shutdown (EPO)



UPS ONLINE



TOWER



LCD DISPLAY
(10-300kVA)



SERVICE
SERVIS



Twice the charging speed, up
to 90% capacity in 4 hours



LCD screen
support



Static and manual
bypass as standard

- Compact interior layout, diminutive structure for space requirement
- Working with LCD screen support and multi-function keys
- Powerful background software for parameter configuration and online update
- optional N+X redundancy, parallel operation of up to 6 units
- Twice the charging speed, charging to 90% capacity in 4 hours.
- Standard emergency power off (EPO)
- Standard RS232/USB communication port
- Optional RS485 / SNMP / AS400 communication port and SMS
- Optional battery temperature compensation, EMD environmental sensors

MODEL	DNXT 33010	DNXT 33015	DNXT 33020	DNXT 33030	DNXT 33040	DNXT 33045	DNXT 33060	DNXT 33080	DNXT 33100	DNXT 33120	DNXT 33160	DNXT 33200	DNXT 33250	DNXT 33300
Output Power (kVA)	10	15	20	30	40	45	60	80	100	120	160	200	250	300
Rated Active Power (kW)	8	12	16	24	32	36	48	64	80	96	128	160	200	240
INPUT														
Number of Phases	3f+N+PE													
Rated Voltage	380V / 400V / 415V													
Voltage Tolerance (100% load)	-%15 +%27													
Nominal Frequency (Hz)	-%45 +%27													
Toleransi (%42 LOAD)	-%64 +%27													
Frequency	50 Hz / 60 Hz													
Frequency Tolerance (Online study)	±%10													
Input Current THD*	≤%4													
Input Power Factor	0,99													
OUTPUT														
Output Power Factor	0,8													
Number of Phases	3f+N+PE													
Rated Voltage	380V / 400V / 415V													
Static Voltage Regulation at 100% loadLinear Load (online&battery mode)	<%1													
Voltage THD (at linear load)	<%1,5													
Crest Factor	3:1													
Frequency (Hz)	50 Hz / 60 Hz													
Frequency Tolerance	± %0.01													
Overload	%125 yükte 10 dakika, %150 yükte 1 dakika													
Yield	%92'ye kadar													
Static Bypass Line														
Phase Number	3f+N+PE													
Voltage Tolerance for Bypass Operation	220V / 230V/240V(f-N) ± %10													
Frequency Tolerance for Bypass Operation	47 Hz - 53 Hz (Ayarlanabilir)													
BATTERIES														
Type	Bakımsız Kuru Tip													
Battery Quantity	54 Adet (2x27)													
Battery Protection	Derin Deşarj Koruması, Isı Kompanzasyonlu Akü Şarjı													
Battery Test	Standart (Otomatik ve Manuel)													
COMMUNICATION														
Interface (Communication Port)	RS232 & RS422													
Dry Contact Connection	Şebeke Kesik, Akü Düşük, Bypass Çalışması, Çıkış Hatası													
Other	EPO (Acil Kapatma Butonu), Jeneratör Arayüzü													
INDICATOR														
LED Display	Şebeke, Bypass, Akü, Inverter, Yük, Hata Göstergeleri													
LCD Display	Yük Yüzdesi, Giriş&Çıkış Frekans, Gerilim & Akım, Bypass Gerilimi, Akü Gerilimi&Akımı, Sıcaklık, Alarmlar													
ENVIRONMENTAL CONDITIONS														
Storage Temperature Range (°C)	-25°C ±55°C (15 - 40°C uzun akü ömrü için tavsiye edilen sıcaklık)													
Operating Temperature Range (°C)	0 - 40°C (20 - 25 °C uzun akü ömrü için tavsiye edilen sıcaklık)													
humidity	0-%95 (yoğuşma olmadan)													
Working Height (max. m.)	1000 m													
Protection Class	IP20													
PHYSICAL PROPERTIES														
Dimensions WxDxH (mm)	400x780x1070			520x900x1300		640x1000x1400		760x1025 x1685	960x1080x1820		1610x1080x1950			
Weight (kg)	235		238	273	450	502	625	680	790	1200	1290	1675	1775	
STANDARDS														
standards	EN 62040-1 -1 (Güvenlik), EN 62040-2 (EMC), EN 62040-3 (VFI-SS-III)													
OPSİYONLAR														
Paralel Kit, SNMP (Internal or External), External by-pass, Remote Monitoring Panel, Battery Cabinet, IP21 Protection Class														

DNXHP 33 MODEL 100-800 kVA ONLINE UPS



- Input power factor: 0.99
- Output power factor: 1
- cold start
- Double Entry
- Automatic frequency detection
- 50 / 60 Hz frequency conversion mode
- Up to 98% work efficiency in EGO mode
- Automatic fan speed control
- Automatic power ON/OFF according to adjustable load capacity

Product images according to power values **May vary.**

FEATURES AND VALUES



Battery charging speed
doubling



Standart
**emergency
shutdown (EPO)**



LCD Display



Optional battery temperature
compensation



Optional
communication port



**Battery restore to 90%
capacity in 4 hours**



Powerful background
software



compact interior
order

- Compact interior layout shrinks the entire unit
- takes up little space
- LCD display, multi-function key operation
- Powerful background software for parameter configuration and online update
- Parallel optional N+ X redundancy up to 6 units
- Optional battery temperature compensation, EMD ambient sensors

- Doubling battery charging speed, 90% capacity restore in 4 hours
- Standard emergency shutdown (EPO)
- Standard RS232/USB communication port
- Optional RS485 / SNMP / AS400 communication port and SMS alarms

MODEL	DNXHP33	DNXHP33	DNXHP33	DNXHP33	DNXHP33	DNXHP33	DNXHP33	DNXHP33	DNXHP33	DNXHP33	DNXHP33
INPUT											
Power (kVA)	100	120	160	200	250	300	400	500	600	800	
Rated Voltage [V]	380 / 400 / 415 3-phase										
Voltage Tolerance [V]	400 ±20% @ full load										
Frequency [Hz]	45 - 65										
Power Factor	>0.99										
Harmonic Current Distortion (THD)	<3%										
soft start	0 - 100% in 120 sec. (selectable)										
Frequency Tolerance	±2% (selectable from ±1% to ±5% from front panel)										
Standard Equipment	Back Feed protection; separable bypass line										
BYPASS											
Rated Voltage [V]	380 / 400 / 415 3-phase + N										
Frequency [Hz]	50 or 60 selectable										
OUTPUT											
Rated Power [kVA]	100	120	160	200	250	300	400	500	600	800	
Active Power [kW]	100	120	160	200	250	300	400	500	600	800	
Number of Phases	3 + N										
Rated Voltage [V]	380 / 400 / 415 3-phase + N (selectable)										
Stability	±1%										
Dynamic Stability	±5% in 10 msec.										
Voltage Distortion	<1% with linear load / <3% with non-linear load										
Peak Factor [I_{peak}/I_{rms}]	3:1										
Battery Frequency Stability	0.05%										
Frequency [Hz]	50 or 60 (selectable)										
Overload	110% for 60 min.; 125% for 10 min.; 150% for 1 min.										
BATTERIES											
Type	VRLA AGM / GEL; NiCd; Supercaps; Li-ion; Flywheels										
Surge Current	Zero										
Charge Voltage Compensation	-0.11% x V x °C										
GENERAL FEATURES											
Weight (kg)	850	850	1015	1070	1300	1680	2050	3026	3080	4004	
Dimensions (WxDxH) [mm]	800x850x1900		1000x850x1900			1500x1000x1900		2100x1000x1900		3200x x 1900	
Distant Signals	volt-free contacts (configurable)										
Remote control	ESD and bypass (configurable)										
Communication	Double RS232 + remote contacts + 2 slots for communications interface										
Ambient Temperature for UPS	0 °C - +40 °C										
Recommended Temperature for Battery Life	+20 °C - +25 °C										
Relative Humidity Range	5-95% non-condensing										
Colour	Dark grey RAL 7016										
Noise Level (1m) [dBA]	63 - 68					70 - 72					
Koruma Seviyesi	IP20 (others upon request)										
Protection Level	>99%										
Smart Active Efficiency	up to 95.5%										
Regulations	European directives: L V 2014/35/EU low voltage Directive EMC 2014/30/EU electromagnetic compatibility Directive Standards: Safety IEC EN 62040-1; EMC IEC EN 62040-2; RoHS compliant Classification in accordance with IEC 62040-3 (Voltage frequency Independent) VFI - SS - III										
Classification according to IEC 62040-3	(Voltage Frequency Independent) VFI - SS - III										



Product images according to power values **May vary.**

- Advanced dual-core DSP control technology
- True online, double conversion power protection and strong load capacity
- Compact, modular hot-swappable design that simplifies maintenance and scalability
- Up to 96% efficiency in online mode, up to 99% efficiency in ECO mode
- Dual input design, independent bypass available, increase bypass availability
- Output power factor 1.0, input power factor ≥ 0.99 , input THDi $\leq 3\%$, output THDv $\leq 1\%$
- 138 ~ 485 Vac wide input voltage range, 50 Hz / 60 Hz mains self-adaptive
- Available frequency conversion: 50 Hz in / 60 Hz out or 60 Hz in / 50 Hz out
- Advanced digital parallel technology increases redundancy and reliability in the system
- Supports battery cold start and mains auto restart

FEATURES AND VALUES



input power factor,
pf > 0.99



Double conversion Online
Double Conversion



advanced digital
parallel technology



Cold Start



ECO mode efficiency:
(99%)



low in weight
power modules



Compact design that
simplifies maintenance and
scalability

- Flexible charger parameter and battery configuration settings, number of batteries 30-46 can be selected
- Compatible with lead-acid Battery and lithium Battery, suitable for different Battery configuration requirements
- Supports battery cold start and mains auto restart
- Adjustable delay time for start-up when mains power is restored reduces impact on mains or generators
- Fan speed changes intelligently according to temperature, reducing noise and prolonging the service life of the fan
- Fault-tolerant design for fan system that takes 35% load when any of the fans fails
- Superior hardware and software protection functionality, robust self-diagnostic functionality and abundant event logs
- Multi-platform communication: RS485, CAN, NET, dry contacts, SNMP, Wi-Fi and GPRS communication interfaces; Real-time monitoring UPS available through mobile App after installing Wi-Fi card and GPRS card
- Intelligent battery management, automatic variable/equalize charge control, battery self-diagnostic control, SOH detection and charger hibernation control, battery life extension

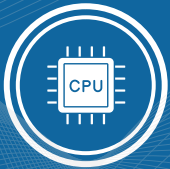
MODEL	DNXP 33	DNXP 33	DNXP 33	DNXP 33	DNXP 33	DNXP 33	DNXP 3333
Strength	100 kVA / 100 kW	200 kVA / 200 kW	200 kVA/200 kW	300 kVA/300 kW	400 kVA/400 kW	500 kVA/500 kW	600 kVA/600 kW
Number of Power Modules	4	8	4	6	8	10	12
Rated Capacity of Power Module	25 kVA / 25 kW		50 kVA				
INPUT							
Input Cabling	Three-phase five-wire (3 Φ + N + PE)		3 Ph + N + PE				
Rated Voltage	380 Vac / 400 Vac / 415 Vac		380 / 400 / 415 Vac				
Voltage Range	138 ~ 305 Vac (linear derating at 40% ~ 100% load), 305 ~ 485 Vac (no derating)		138 ~ 485 Vac (304 ~ 485 Vac without power downgrading; 138 ~ 304 Vac with linear downgrading 40%)				
Frequency range	40 ~ 70 Hz		40 ~ 70 Hz				
Input Power Factor	≥ 0.99		≥ 0.99				
THDi	$\leq 3\%$		$< 3\%$				
Battery Voltage	± 240 Vdc ($\pm 180 \sim \pm 276$ Vdc settable)		± 240 Vdc ($\pm 180, \pm 192, \pm 204, \pm 216, \pm 228, \pm 252, \pm 264, \pm 276$ selectable)				
Number of Batteries	40 pcs 12 V batteries (30, 32, 34, 36, 38, 40, 42, 44, 46 pcs settable)		40 pcs 12 V batteries (30 / 32 / 34 / 36 / 38 / 42 / 44 / 46 pcs selectable)				
OUTPUT							
Output Wiring	Three-phase five-wire (3 Φ + N + PE)		3 Ph + N + PE				
Rated Voltage	380 Vac / 400 Vac / 415 Vac		380 / 400 / 415 Vac $\pm 1\%$				
Output Power Factor	Synchronized with utility in mains power mode; 50 Hz / 60 Hz $\pm 0.1\%$ in battery mode		50 Hz / 60 Hz $\pm 0.25\%$ in battery mode				
Output Power Factor	1		1				
Output Waveform Distortion (THDv)	$\leq 1\%$ (linear load); $\leq 4\%$ (non-linear load)		$\leq 1\%$ with linear load / $\leq 3\%$ with non-linear load				
Peak Factor	03:01		03:01				
Overload Capacity	105% < load $\leq 110\%$ for 60 min, 110% < load $\leq 125\%$ for 10 min,		105% < load $\leq 110\%$: transfer to bypass in 60 min				
			110% < load $\leq 125\%$: transfer to bypass in 10 min				
	125% < load $\leq 150\%$ for 1 min, load > 150% for 0.2 s		150%: transfer to bypass in 200 ms Load > 150%: transfer to bypass in 200 ms Load $\leq 135\%$ for long term; < 1000% load for 100 ms				
SYSTEM							
Max. Productivity	96% in on-line mode, 99% in ECO mode		96.50%				
Transfer Time	0 ms		0 ms				
Protections	Short-circuit, overload, over-temperature, battery low voltage, undervoltage, overvoltage, fan failure protection		Short circuit protection, overload protection, over-temperature protection, battery low voltage protection, output over/low voltage protection, fans failure protection etc.				
viewing	7 inches LCD touch screen		7 inches LCD touch screen				
ENVIRONMENTAL							
Operating temperature	0°C ~ 40°C		0 ~ 40°C				
Storage Temperature	-25°C ~ +55°C (without battery)		-40°C ~ +70°C				
Relative humidity	0% ~ 95% (non-condensing)		0 ~ 95%(non-condensing)				
Altitude	≤ 1000 m, above 1000 m, derating 1% for each additional 100 m		≤ 1000 m. Above 1000 m, derating 1% for each additional 100 m				
Protection Level	IP 20		IP 20				
Noisy	≤ 65 dB (at 1 m)		< 68 dB				

SINGLE PHASE SERVO REGULATOR WITH MICRO PROCESSOR 1-200 kVA



Product images according to power values **May vary.**

FEATURES AND VALUES



Maximum security with **Microprocessor Control**



Over Voltage Protection (Optional)



Energy saving with **High Efficiency**



High Setting Speed



Fully Automatic Servo Control



High Efficiency and Protection Unit



Fan Cooling (optional)



Durable Construction

- High setting speed
- Timed fan cooling (optional)
- The protection unit of the regulator is activated with a delay of 7 seconds. (Adjustable) To prevent damages caused by sudden voltage fluctuations)
- Mechanical by-pass switch (1: Mains, 2: Regulator)
- Precision tolerance adjustable from front panel
- The device is guaranteed for 2 (two) years against
- 10 years spare parts supply is guaranteed.
- Glass fiber wire transformer is wound and resistant to 250 degrees heat
- Fully automatic servo controlled
- 1 (digital) voltmeter
- Correction (control) speed: 200vac/sec.
- Input voltage range: phase-neutral 150-250 vac;
- Output voltage range: phase-neutral 220vac (230 Vac adjustable)
- Output voltage tolerance: %/o2
- Device efficiency: 97%
- Working at -10 to +55 degrees
- 3 seconds working at 150% capacity
- With overload, short circuit, over heat and voltage protection unit (optional)

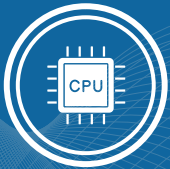
INPUT PARAMETERS											
Strength	3,5 kVA	5 kVA	7,5 kVA	10 kVA	15 kVA	20 kVA	25 kVA	30 kVA	40 kVA	50 kVA	
Input connection phase number	1 Faz										
Input voltage correction range	Min 110V AC - Max 300 V AC										
Card supply operating voltage	75 V. AC										
Continuous run time at full load	Devamlı 7/24										
Working frequency	50 / 60 Hz.										
OUTPUT PARAMETERS											
Strength	2,8 kW	4 kW	6 kW	8 kW	12 kW	16 kW	20 kW	24 kW	32 kW	40 kW	
Corrected output voltage	200 V AC ... 220 V AC... 240 V AC (Menüden ayarlanabilir)										
Correction speed	Frekans 50 = 20ms - Frekans 60 = 50 ms										
Output tolerance	%1...%9 (Menüden ayarlanabilir.)										
Output delay time setting	1sn...10sn (Menüden ayarlanabilir.)										
Output upper limit shutdown	...242 V AC Menüden ayarlanabilir (Korumalı modellerde)										
Output lower limit shutdown	75 V AC... Menüden ayarlanabilir (Korumalı modellerde)										
Overload	10 Saniye %200 Yükte										
Yield	%98 Tam yükte										
GENERAL PARAMETERS											
Automatic By-Pass	Pako şalter ile										
Cooling System	Opsiyonel										
Harmonic Distortion	Fan										
Harmonik Bozulma	Yok										
Input voltage - Output voltage measurement	TRUE RMS (Menüden ayarlanabilir)										
display	2x3 Digit kırmızı led ekran										
ENVIRONMENTAL CONDITIONS											
Operating temperature	-10C / +50 C										
Bound humidity	<%90 DIN										
working height	<3000 Metre										
acoustic level	<50 dB										
Weight	28 kg	35 kg	45 kg	50 kg	65 kg	115 kg	120 kg	135 kg	180 kg	195 kg	
Dimension	50x35x30cm					50x55x85cm			60x60x90cm		

THREE-PHASE SERVO REGULATOR WITH MICRO PROCESSOR 10.5–3200 kVA



Product images according to power values **May vary.**

FEATURES AND VALUES



Maximum security with **Microprocessor Control**



Over Voltage Protection (Optional)



Energy saving with **High Efficiency**



High Setting Speed



Fully Automatic Servo Control



High Efficiency and Protection Unit



Fan Cooling (optional)



Durable Construction

- Glass fiber wire transformer is wound and is resistant to 250 degrees heat.
- High setting speed
- The protection unit of the regulator is activated with a delay of 7 seconds (Adjustable) (To prevent damages caused by sudden voltage fluctuations)
- Fully automatic servo controlled.
- 3 (digital) voltmeters
- Correction (control) speed: 200 vac / sec.
- Input voltage range: phase to neutral 150 - 250 vac; 275 - 450 vac between phases.
- 1 - 0 - 2 Mechanical by-pass switch. (1: Mains, 2: Regulator)
- The device is guaranteed for 2 (two) years against manufacturing defects.
- 10 years spare parts supply guarantee
- Sensitivity tolerance adjustable from front panel
- fan cooling
- Output voltage range: phase to neutral 220 vac; 380 vac between phases. (230 - 400 Vac adjustable)
- Output voltage tolerance: 2%
- Device efficiency: 97%

INPUT PARAMETERS										
Power (kVA)	10.5	15	22,5	30	45	60	75	100	120	150
Input connection phase number	3 Faz									
Input voltage correction range	Min. 110V AC - Max 300 V AC									
Card supply operating voltage	75 V. AC (Her Faz için)									
Continuous run time at full load	Devamlı 7/24									
operating frequency	50 / 60 Hz.									
OUTPUT PARAMETERS										
Power (kW)	8.4	12	18	24	36	48	60	80	96	120
Corrected output voltage	200 V AC... 220 V AC ... 240 V AC (Menüden ayarlanabilir)									
Correction speed	Frekans 50 = 20ms - Frekans 60 = 50 ms									
Output tolerance	%1...%9 (Menüden ayarlanabilir.)									
Output delay time setting	1sn...10sn (Menüden ayarlanabilir.)									
OUTPUT upper limit closing	242 V AC Menüden ayarlanabilir (Korumalı modellerde)									
Output lower limit shutdown	75 V AC Menüden ayarlanabilir (Korumalı modellerde)									
Overload	10 Saniye %200 Yükte									
Yield	%98 Tam yükte									
GENERAL PARAMETERS										
Mechanical By-Pass	Pako şalter ile									
Mechanical By-Pass	Opsiyonel									
Cooling system	Fan									
Harmonic Distortion	Yok									
Input voltage - Output voltage measurement	TRUE RMS (Menüden ayarlanabilir)									
Display	2x3 Digit kırmızı led ekran									
ENVIRONMENTAL CONDITIONS										
Operating temperature	-10C/+50C									
Bound humidity	<%90 DIN									
working height	<3000 Metre									
acoustic level	<50 dB									
PHYSICALLY										
Dimension	40x35x90 cm	55x45x110 cm	55x45x110 cm	40x35x90 cm	55x45x110 cm	85x55x130 cm	85x55x130 cm	85x55x130 cm	90x65x145 cm	90x65x145 cm
Weight	90 kg	130 kg	150 kg	170 kg	210 kg	320 kg	340 kg	400 kg	520 kg	685 kg

STATIC SINGLE PHASE REGULATOR 5- 50 kVA

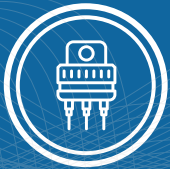


It is a static voltage regulator that does not contain milliseconds with digital technology under the control of microprocessor. There are no parts that will wear out and require maintenance. It has no parts that will deteriorate or require maintenance.

- Thyristor control with PWM technology.
- 3 LCD displays. (Voltage, current, tolerance and protection levels can be seen)
- Correction (control) speed: 20 ms. (5000 VAC/s)
- Input voltage range: phase to neutral 170 - 260 VAC
- Output voltage range: phase to neutral 220 vac
- Output voltage tolerance: 2%
- Device efficiency: 96%
- - Working at 10 to + 55 OC.
- Ability to meet the overload (500%) for 20 milliseconds

Product images according to power values Mayvary.

FEATURES



Thyristor control with PWM technology.



Overload Protection Unit (Optional)



Energy saving with High Efficiency



Failure Signal



EMI / RFI noise filter.



- EMI / RFI noise filter.
- Output voltage and sensitivity tolerance adjustable from the front panel.
- Timed fan cooling (optional)
- Fault signal (with audible light)
- The protection unit of the regulator is activated with a delay of 10 seconds.

- 1-0-2 Mechanical by-pass switch. (1: Mains, 2: Regulator)
- The device is guaranteed for 2 (two) years against manufacturing defects.
- 10 years spare parts supply is guaranteed.
- Free of harmonic distortion

MODEL	DT11	DT11	DT11	DT11	DT11	DT11	DT11	DT11	DT11
STRENGTH	5 Kva	7,5 Kva	10 Kva	15 Kva	20 Kva	25 Kva	30 Kva	40 Kva	50 Kva
INPUT									
Input Voltage Range	Phase + N; 220 - 230 - 240 Vac \pm 20% (selectable from - 60% to + 30%)								
Frequency	45 - 65 Hz (Automatic frequency detection)								
Power Factor	> 0,99								
Harmonic Current Distortion	No additional distortion								
Input Current	30A	45A	60A	90A	120A	150A	175A	235A	300A
OUTPUT									
Output Voltage	Phase + N; 220 - 230 - 240 Vac \pm 1-3-% (selectable \pm 1-2-%)								
Output Current	25A	35A	45A	60A	90A	115A	135A	180A	225A
Output Frequency	50 or 60 Hz (selectable)								
Protections	Over(peak, surge) and under voltage(sag), over current, short-circuit,								
Rated Power (kVA)	5	7,5	10	15	20	25	30	40	50
Active Power (kW)	4	6	8	12	16	20	24	32	40
Number of Phases	1 + N								
Surge Current	Zero								
Voltage Distortion	< 1% with linear load / < 1% with non-linear load								
Overload	110% for 60'; 125% for 10'; 150% for 1'								
Reaction time	20 millisecond								
Productivity	> 97%								
Harmonic Distortion	No distortion								
Ambient temperature	-20°C to +50°C								
Relative humidity	<95% non-condensing								
Noise Level	Audible noise of 52-56 dB at 1 meter								
Filter	RFI-EMI Filter								
standards	Safety: EN 62040-1-1 (Directive 2006/95/EC); EMC: EN 62040-2 (Directive 2004/108/EC)								
BYPASS	Available								
ENVIRONMENTAL									
Weight (kg)	15	20	25	40	55	70	95	115	150
Dimensions (WxDxH) (mm)	270 x 470 x 480		270 x 470 x 480			400 x 470 x 700		400 x 470 x 700	
viewing	Graffic 2x16 LCD display (input- output voltage)								
Distant Signals	dry contacts (configurable)								
Remote control	Input MCCB and bypass (configurable)								
Isolation Transformers	Input and Output Isolation Transformer (configurable)								
Communication	(Optional) RS232 + Rs485 + dry contacts + 2 slots for communications interface								
Colour	Dark grey RAL 7016, RAL 7035 or RAL 9005								
IP Rating	IP20 (others on request)								
Moving the Regulator	Transpallet								

STATIC THREE-PHASE REGULATOR 30–3500 kVA

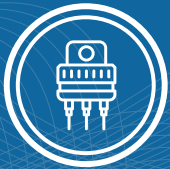


It is a static voltage regulator that does not contain any moving parts. It performs voltage regulation in milliseconds with digital technology under the control of microprocessor. There are no parts that will wear out and require maintenance.

- Thyristor control with PWM technology.
- 3 LCD displays. (Voltage, current, tolerance and protection levels can be seen)
- Correction (control) speed: 20 ms. (5000 VAC/s)
- Input voltage range: phase to neutral 170 - 260 VAC; 300 - 450 VAC between phases
- Output voltage range: phase to neutral 220 vac; 380 VAC between phases
- Output voltage tolerance: 2%
- Device efficiency: 96%
- - Working at 10 to + 55 0C.
- Ability to meet the overload (500%) for 20 milliseconds

Product images according to power values Mayvary.

FEATURES



Thyristor control with PWM technology.



Overload Protection
Overload Protection



Energy saving with High Efficiency



Failure Signal



EMI / RFI noise filter.



- Overload, short circuit, over heat and voltage protection (Optional)
- Glass fiber wire transformer is wound and resistant to 250 degrees
- EMI / RFI noise filter
- Output voltage and sensitivity tolerance adjustable from the front panel.
- Timed fan cooling
- Fault signal (with audible light)

- The protection unit of the regulator is activated with a delay of 10 seconds.
- 1 - 0 - 2 Mechanical by-pass switch. (1: Mains, 2: Regulator)
- The device is guaranteed for 2 (two) years against
- 10 years spare parts supply is guaranteed.
- Free of harmonic distortion

MODEL	DT33	DT33	DT33	DT33	DT33	DT33	DT33	DT33	DT33
STRENGTH	30 Kva	45 Kva	60 Kva	75 Kva	100 Kva	120 Kva	150 Kva	200 Kva	250 Kva
INPUT									
Input Voltage Range	Three-Phase + N; 380 - 400 - 415 Vac \pm 20% (selectable from - 60% to + 30%)								
Frequency	45 - 65 Hz (Automatic frequency detection)								
Power Factor	> 0,99								
Harmonic Current Distortion	No additional distortion								
Input Current	60A	90A	120A	150A	200A	235A	300A	390A	490A
OUTPUT									
Output Voltage	Three Phase + N; 380 - 400 - 415 Vac \pm 1-3~% (selectable \pm 1-2~%)								
Output Current	45A	68A	90A	115A	150A	180A	225A	300A	380A
Output Frequency	50 or 60 Hz (selectable)								
Protections	Over(peak, surge) and under voltage(sag), over current, short-circuit,								
Rated Power (kVA)	30	45	60	75	100	120	150	200	250
Active Power (kW)	24	36	48	60	80	96	120	160	200
Number of Phases	3 + N								
Rated Voltage	380 - 400 - 415 Vac -Three phase + N								
Surge Current	Zero								
Voltage Distortion	< 1% with linear load / < 1% with non-linear load								
Overload	110% for 60'; 125% for 10'; 150% for 1'								
Reaction time	20 milisecond								
Productivity	> 97%								
Harmonic Distortion	No distortion								
Ambient temperature	-20°C to +50°C								
Relative humidity	< 95% non-condensing								
Noise Level	Audible noise of 52-56 dB at 1 meter								
Filter	RFI-EMI Filter								
standards	Safety: EN 62040-1-1 (Directive 2006/95/EC); EMC: EN 62040-2 (Directive 2004/108/EC)								
BYPASS	Available								
ENVIRONMENTAL									
Weight (kg)	115	145	185	220	275	300	415	550	700
Dimensions (WxDxH) (mm)	400 x 800 x 800		460 x 500 x 1130		500 x 700 x 1650			1150 x 950 x 1700	
viewing	Graffic 2x16 LCD display (input- output voltage)								
Distant Signals	dry contacts (configurable)								
Remote control	Input MCCB and bypass (configurable)								
Isolation Transformers	Input and Output Isolation Transformer (configurable)								
Isolation Transformers	(Optional) RS232 + Rs485 + dry contacts + 2 slots for communications interface								
Colour	Dark grey RAL 7016, RAL 7035 or RAL 9005								
IP Rating	IP20 (others on request)								
Moving the Regulator	transpallet								

FULL SINUS SMART SOLAR INVERTER 1-3-5 kVA



Product images according to power values **May vary.**

- Output power factor = 1 with pure sine wave PV inverter
- Selectable input voltage range for PC or home
- Intelligent charging algorithm to optimize battery life
- Configurable AC / Solar input priority via LCD panel
- Configurable AC / Solar input priority via LCD panel
- Compatible with mains or generators
- Auto restart with AC back and cold start function
- Overload and short circuit protection
- (optional)
- System traceability with built-in ethernet

FEATURES AND VALUES



Over voltage, over
heat protections



LCD ekran
easy operation



Very light with its
transformerless structure



Grid/solar
connected



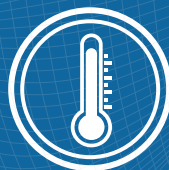
Power Range 1kVA-
3kVA-5kVA



Mains / Solar battery
charging feature



Grid / solar operation
priority



Extreme heat
protection

- PWM or MPPT Solar Inverter
- Power Range 1kVA-3kVA-5kVA
- Grid/solar connected
- Mains / Solar battery charging feature
- LCD screen easy operation
- Very light with its transformerless structure
- Ability to define grid / solar operating priority
- Over voltage, short circuit, over heat protections



MODEL		DNXP 12 VDC - 220 VAC	DNXP 24 VDC - 220 VAC	DNXP 48 VDC - 220 VAC
RATED BATTERY SYSTEM VOLTAGE		12VDC	24VDC	48VDC
INVERTER OUTPUT	rated power	1000W	3000W	5000W
	waveform	Tam Sinüs		
	AC Voltage Regulation Battery mode	(220VAC ~240VAC)±5%		
	Drive Efficiency (Peak)	93%		
	Transfer time	10ms (UPS / VDE4105) 20ms (APL)		
AC INPUT	Income	230VAC		
	Selectable Voltage Range	170~280VAC (Kişisel PC) / 90~280VAC (Ev Aletleri) / 184~253VAC (VED4105)		
	Frequency range	50Hz / 60Hz (Otomatik Algılama)		
BATTERY	rated voltage	12VDC	24VDC	48VDC
	Fluctuating Charge Voltage	13.7VDC	27.4VDC	54.8VDC
	Overcharge Protection	15.5VDC	30VDC	60VDC
SOLAR CHARGING & AC CHARGING	Max PV Array Open Circuit Voltage	55VDC	80VDC	105VDC
	Standby Power Consumption	2W	2W	2W
	Max Solar Charge Current (PWM)	50A	60A	60A
	Max Solar Charge Current Current	10A ya da 20A	20A ya da 30A	60A
	Maximum Charge Current	70A	80A	120A
Maximum Charge Current	Cihaz Boyutları (G*Y*D) (mm)	225*355*92	272*355*100	297.5*468*125
	Device Dimensions (W*H*D) (mm)	405*373*205	465*373*231	618*415*261
	Net Weight (kg)	5,0	7,8	12
	Gross Weight (kg)	6,0	10,3	13,5
ENVIRONMENTAL	Moisture	%5 ila %95 Bağıl nem (Yoğuşmasız)		
	Operating temperature	0°C ~50°C		
	Storage temperature	-15°C ~60°C		

MODIFIED SINUS INVERTER



Product images according to power values **May vary.**

Modified sine inverters can be used in simple systems without sensitive electronics. It may be a good choice if you don't have an AC motor and is not a sensitive piece of medical equipment. Old tube televisions and phone chargers can usually be used with a modified sine inverter without any problems.



Technical Scheme



MODEL		DS600	DS1200	DS1500	DS2000	DS2500
OUTPUT	AC Voltage	220V				
	AC Voltage range	220-240V				
	AC Correction	±10%				
	rated power	600W	1200W	1500W	2000W	2500W
	waveform	Modifiye Sinüs				
	Frequency	50/60Hz±3				
	USB Port	5V 2.1A (isteğe bağlı)				
	LED indicator	Güç açıkken yeşil, elektrik kesintisi/ koruma durumu için Kırmızı				
	Cooling	Yüke göre kontrol				
INPUT	No-load current drawn	≤0.8A	≤1.1A	≤1.5A	≤1.7A	≤1.8A
	DC Voltage	12V				
	voltage range	10-16V DC				
PROTECTION	Productivity	92% max.				
	Battery low voltage alarm	10.5±0.5V DC				
	Battery low voltage shutdown	10±0.5V DC				
	Reset Voltage (After low voltage)	11.5V~12VDC				
	Overload	Kapatma ve yeniden başlatma (isteğe bağlı)				
	over voltage	15.5±0.5V DC				
	extreme temperature	80±5°C				
	Output short circuit	Çıkış kısa devre olduğunda çıkışı kapatın				
	reverse connection	Sigortalı				
	soft take off	Mevcut, 3-5's				
	Earth Fault	Yükte elektrik kaçağı olduğunda çıkışı kapatın				
ENVIRONMENT	Operating temperature	0~30°C 100% kapasite; 40°C 50% kapasite				
	Operating Humidity	20%-90% RH				
	MTBF	200khrs min. MIL- HDBK- 217(25°C)				
	Unit	22.6*10.8*6.2	32.5*22.8*7	34.5*23*10.8	42*23*10.8	52*23*10.8
ENVIRONMENTAL	unit weight (kg)	1,2	4,0	5,8	7,5	9,7
	unit weight (kg)	16 adet	4 adet	2 adet	2 adet	2 adet
	Power point	Euro Tip				
	APPLICATION	Ev ve Ofis Aletleri, Taşınabilir Güç Aletleri, Araç, Yat ve Off-Grid Solar güç sistemleri vb.				
	LCD display	LCD opsiyonel				

BATTERY CHARGER 20–200 Amps



- 100% compatibility with all DC devices and batteries
- Semiconductor (Thyristor) control
- Current and voltage regulation
- Separate output for battery and load (Optional)
- Short circuit protection
- Overcurrent protection
- High/low voltage protection
- Paralel veya seri bağlantı
- Voltmeter and ammeter selection
- Desired voltage setting
- 100% Performance
- Good quality, ergonomic structure, small dimensions, easy carrying

Product images according to power values **May vary.**

FEATURES AND VALUES



Parallel or Serial
Connection



Quiet Operation



Energy saving with
High Efficiency

- battery charging
- Power generation and distribution plants
- substations
- telecom systems
- petrochemical plants
- Shipyards and marine systems
- subway, tram, rail
- satellite systems
- forklifts

GENERAL FEATURES

- Aesthetic look
- LCD screen
- Quiet operation
- Environmental design
- Simple installation
- Simple program menu
- Ability to charge all batteries (dry, wet, gel)
- 24-hour operation, Parallel operation
- Automatic activation in case of power failure
- Lower warning voltage error
- Upper warning voltage error
- Working at different frequencies (50 -60 hz)

OPTIONAL FEATURES

- Battery reverse warning
- Battery not connected warning
- DC leakage error
- Audible error messages
- PC connection
- Battery discharge unit
- Battery test unit
- Operation at different input voltages
- Redundant operation
- Working with external start
- Circuit supply
- Çift veya daha fazla çıkış
- Network present – no warning error

ADJUSTABLE RECTIFIER

We have adjustable rectifier production.



Product images according to power values **May vary.**

- Rectifier types produced by Siel; Up to 1000 Ampere current capacity with 1 Phase AC input; Up to 1000 Ampere current capacity with 3 Phase AC input;
- Devices that convert AC alternating current to DC direct current are called rectifiers. The output current and voltage of these devices are electronically controlled. The devices are microprocessor controlled and have communication options and digital front panel. Rectifiers are generally used for charging battery systems, while charging the battery, it is desirable to limit the charging current and not exceed a certain value. In addition, the maximum DC voltage applied to the batteries should not exceed a certain value.

FEATURES AND VALUES



Wide range of features
with **Smart Panel**



Aesthetic
appearance



Energy saving with
High Efficiency



24 hours continuous
operation



Silent
study

MANSION RECTIFIER



SPECIAL CHARGING MODE

In addition to standard charging methods, a special charging chart can be made for you.

USAGE AREAS

Rail systems - Hydro power plants - solar power plants

SMART PANEL

Most of them are optional, but all the desired features

CONTINUOUS OPERATION

The device never stops. It is not affected by power cuts. In case of malfunction, it informs the system.

BOXED TEST OIL 1-1000 kVA



Product images according to power values **May vary.**

It allows the desired voltage to be adjusted manually or automatically by the motor within the adjustment range determined according to the customer's request. With the specially designed multimeter on the device, the input voltage, output voltage and amperage are displayed instantaneously.

If there is no special demand, monophase test variacs are generally produced with 0-300V adjustable capacity from 1kVA to 15kVA. Three-phase test variacs are produced in 3x0-380V or requested voltage ranges from 3kVA to 1000kVA.

- Input Voltage, Output Voltage can be seen on the screen
- Born terminal or socket outlet according to demand
- natural cooling
- Control Type+ - push button or manual dial



- Sensitivity : ~ + - 1%
- High efficiency quiet operation
- Quality, ergonomic construction
- Enclosure Boxed
- Wheeled (three-phase)
- Compact switch (three-phase) at the INPUT
- Comply with CE / ISO 9001 standards
- Production at demanded power
- Digital Ammeter indicator
- Digital voltmeter indicator



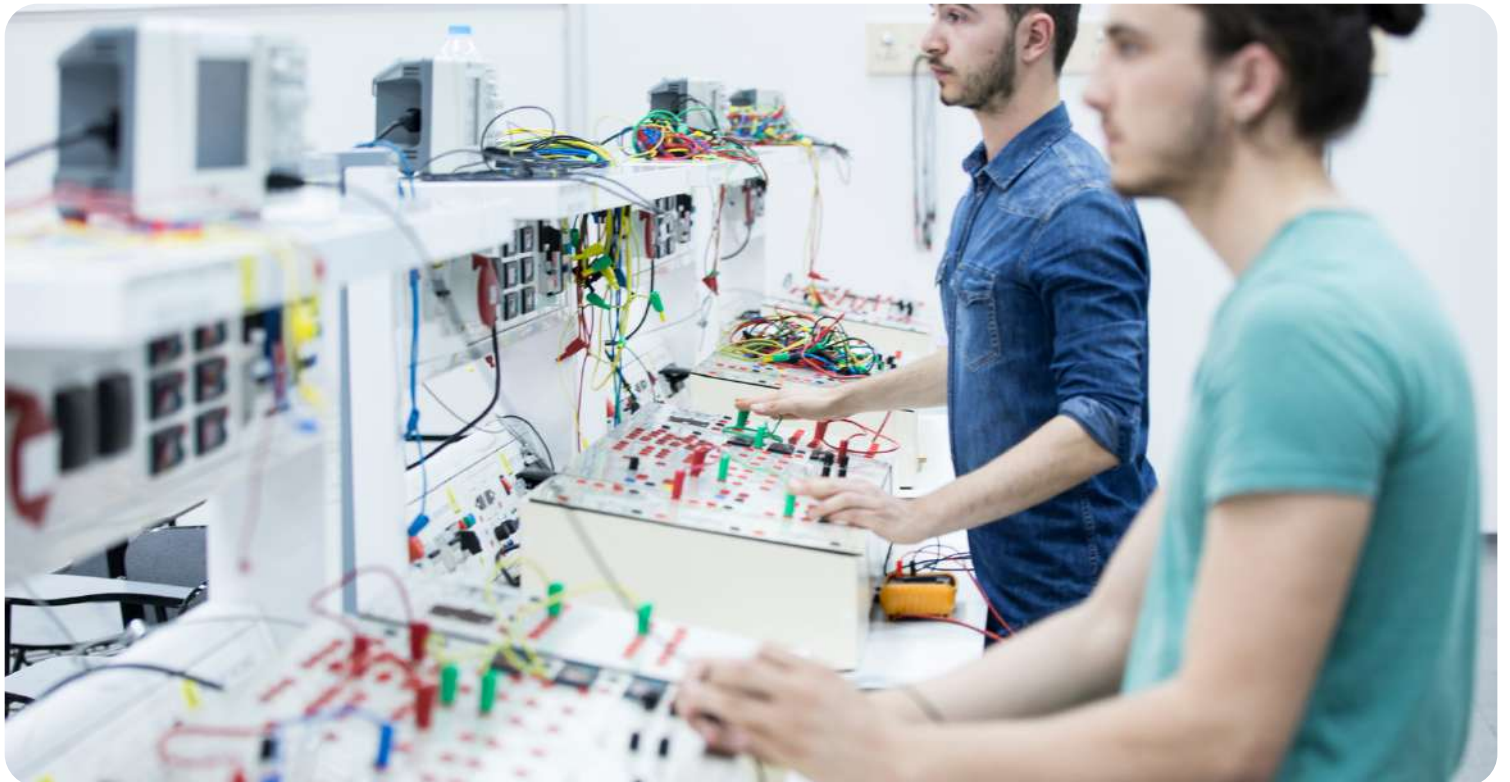
Usage areas



Home Appliance
Production

Test Rooms

Factories



Test Lab

Automotive

Control Systems

FREQUENCY CONVERTER



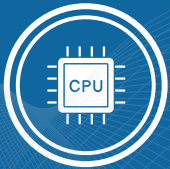
10-1000 kVA 1/3 phase input - 1/3 phase output fixed frequency converters are high-tech devices produced for use in fields such as industry, yacht ship and radar systems. This device is designed in an on-line system and feeds the loads it is olduğu yükleri sürekli bir şekilde kendi ürettiği kararlı frekans produces. It provides safer and more interference-free clean energy with its galvanic isolation transformer.

- With optional galvanic isolation transformer
- Efficiency up to 94%
- Parallel operation feature
- Emergency shutdown switch connection
- Static bypass feature
- Maintenance bypass feature
- LCD panel
- event memory
- remote monitoring
- Automatic and Manual battery test

Product images according to power values

May vary.

FEATURES AND VALUES



Maximum security
with CPU Control



LCD Panel



Energy saving with
High Efficiency



Static By-Pass Feature



Intelligent fan speed
changing according to load



event memory

- SNMP compatible communication
- RS232 and dry contact outputs
- Custom production input/output values according to needs
- Compliance with international standards
- 2 years device and battery warranty
- 10-year spare parts supply guarantee
- Authorized service and customer service support



GENERAL	
1-3 Phase/1-3 Phase Power Options	10 / 15 / 20 / 30 / 40 / 60 / 80 / 100 / 120 / 150 / 200 kVA
Working Technique	Çıkış İzolasyon Trafolu On-Line Çift Çevrim Sistem
Control	RISC Mikroişlemci Kontrollü
Yield	>%90
Overload Capacity	%125 Yükte 10 dk, %150 Yükte 1 dk, %200 Yükte 1 sn
Insulation Voltage	2.500 VAC (Giriş-Çıkış, Giriş-Şase, Çıkış-Şase Arası)
INPUT	
Input Voltage	220/380/400 VAC (3 Faz)
Input Voltage Tolerance	±15%
Input Frequency	50 - 60 Hz (İsteğe göre)
Input Frequency Tolerance	±5%
Power Factor	>0.8
Ingress Protection	Termik Manyetik Aşırı Akım, Aşırı Gerilim ve EMI-RFI Filtre
Surge and Surge Protection	IEEE 587 (4500 A, 110 Joules)
OUTPUT	
Output Voltage	220/115 VAC (3 Faz) ; 380/220 VAC (3 Faz) (İsteğe göre)
Output Voltage Tolerance	±1%
Output Frequency	60 / 400 Hz (İsteğe göre)
Output Frequency Tolerance	±0.1% Kendi Osilatörü
Output Waveform	Tam Sinüs
Dynamic Response	±5%, 5 ms
Output Protection	Kısa Devre, Aşırı Akım, Aşırı Gerilim ve Aşırı Isı Elektronik Koruma
Output Transformer	Galvanik İzolasyon Trafosu
BATTERY GROUP (OPTION)	
Type	Tam Bakımsız Kuru Tip Sızdırmaz Akü
Charge	Sabit Gerilimde Akım Sınırlamalı
Protection	Aşırı Akım, Aşırı Gerilim ve Aşırı Isı Elektronik Koruma
DC BUS	
Rated Voltage	360/384VDC
Float Voltage	410/435VDC
DC Voltage Surge	<%1
DIGITAL FRONT PANEL	
Indicators and Buttons	2 x 16 LCD Panel, Menü Seçim ve Parametre Ayar Butonları
Warning Messages	Giriş Sigortası/Çalışma Modu/DC Gerilim Düşük-Yüksek/Aşırı Yük/Cihaz Aşırı Isı/İnverter Aşırı Isı/İnverter Hızlı Sigortası/Çıkış Düşük-Yüksek
Traceable Values	Çıkış Gerilimi/Çıkış Frekansı/İnverter Yük Seviyesi/DC Bara Gerilimi/Cihaz Isısı/Olay Geçmiş
Adjustable Values	Çalışma Modu/Otomatik-Manuel Açılma/DC Bara Kesme Gerilimi/Tarih/Saat /Alarm Ses Seviyesi/Haberleşme Adres Değeri
Audible Alarm	Uyarı mesajlarında 2 saniyede bir 2 kısa "DIT"
Communication	RS-232 ve RS-485 Modülleri Vasıtasıyla Bilgisayarla Uzaktan Takip, Parametre Ayarı ve Geriye Dönük 256 Adet Olay Hafızası
DIGITAL FRONT PANEL	
Cooling	Forced Fan
Electrical Noise Reduction	FCC Part 15 Class B
Protection Level	IP20 / IP42 / IP54 (İsteğe göre)
Color	RAL 7035
Operating temperature	-10 / +40 °C
Relative humidity	90%
Operating Height	Up to 2,000 meters
Noise Level	Less than 60dB at 1 meter
Electrical Standards	EN 50091-1 (Güvenlik) / EN 50091-2 (EMC)

AUTOTYPE-ISOLETYPE TRANSFORMER 1-2000 kVA



They are used for the healthier operation of devices used for industrial purposes. It prevents the reflection of magnetic noises in the network to sensitive industrial devices. In the same way, the reflection of the electrical pollution caused by the devices with non-linear structure In transformers used for voltage reducing purposes
Voltaj düşürücü amaçlı kullanılan trafolar da **220/12 - 220/24 - 220/48; 3x380/ 3x380 - 3x380/ 3x220**
It has general usage forms.



FEATURES AND VALUES



Fan Cooling



Custom Production
on Demand



Energy saving with
Energy saving with

- Yıldız, üçgen, zigzag ve istenilen faz açısında imalat phase angle
- F or H class insulation
- Structure in accordance with TSE and DIN norms
- CE Certified
- Production in open or enclosed (boxed) type

General Usage Areas

- CNC machines
- Hospital, operating room isolation system units
- All kinds of electronic measuring devices
- Power transmission in all kinds of industrial applications
- Protection of devices from negative elements of mains electricity



Usage areas



CNC Machines

Insulation Systems

GES/HE



Operating Rooms

Hospitals

Robotic Systems

BLUEBATTERY GEL BATTERIES



FEATURES AND VALUES



International
CE Quality Certificate



Long lasting
Use



TSE Quality
Certificate



Safe thanks to its
gas-tight structure



Versatile range of
uses

UPS'ler



Kamera Sistemleri



Rüzgar Türbinleri



Medikal Sistemler



Aydınlatma Sistemleri



Karavanlar



- It has the International CE Quality Certificate.
- It has TSE Quality Certificate in accordance with Turkish standards.
- It is the highest quality pure gel battery type with high performance and a life expectancy of 12 years.
- BlueBattery brand is one of the top 5 brands in the world.
- It is designed for frequently cyclic charge and discharge applications.
- They can operate in a very wide range of temperatures. -20C / +50C
- They can operate in a very wide range of temperatures. -20C / +50C
- It is gas-tight as it works entirely with oxygen recombination.
- Batteries can be operated in any horizontal or vertical position. It will not leak acid even when turned upside down.
- The special calcium alloy grids used provide long life and high performance.

BLUEBATTERY 4.5 – 200 Ah AGM DRY BATTERY



BLUE BATTERY AİLESİ



High performance
2 year life expectancy



Working in a wide
temperature range



Energy saving with
High Efficiency



Frequent cyclic charge
and discharge



Private security
valves





Uninterruptible
Power Supply



Tel: +90 216 533 2625 **E-Mail:** info@dinamikenerji.com.tr

Ofis: İçerenköy mah. Küçükçiftlik Sokak No:3/B Ataşehir / İstanbul

Merkez: Cemil Meriç, 29 Ekim Cd. NO:13/AB, 34771 Ümraniye/İstanbul