

ON-LINE UNINTERRUPTIBLE POWER SUPPLIES

N SERIES 1-2-3 kVA Mini

1 PHASE INPUT - 1 PHASE OUTPUT



- High-Performance DSP Controlled Technology
- True On-Line Double Conversion with IGBT Rectifier
- True Pure Sine Wave Output Voltage
- Wide Input Voltage Range (110-300 V AC)
- High Input Power Factor (>99%)
- High Output Power Factor (kVA = kW)
- 50Hz/60Hz Frequency Converter Mode
- Electromagnetic and RFI Protection
- Digital Panel providing detailed information about Mains, Charging System, Battery Status and Output Voltage
- Starting from Battery without Mains
- Digital Charging System that ensures the long life of the batteries
- Longer Supply with External Battery Pack (With Long Model)
- Communication from RS 232 Serial Port for remote monitoring and secure shutdown in networks,
- Plug and Play Monitoring Software with USB (Optional)
- High Security with EPO (Emergency Power Off) Connection
- Compliance with international standards
- 2 Years Device and Battery Warranty
- 10 Years Spare Parts Supply Guarantee
- Experienced Technical Service and Customer Service Support throughout Turkey

APPLICATIONS

- IT Centers
- Factories
- Medical Devices
- Emergency Systems (Alarm)
- Communication Devices
- Server and Server Rooms
- Personal Computers
- Small Computer Network
- Network systems

ADVANTAGES

- Transformerless structure
- Latest technology
- Energy save
- Clean and stable output voltage
- Overload and short-circuit protection
- Remote monitoring
- Adjustable values
- EPO and Generator compatibility

GERMENUPS®
ALWAYS CONNECTED

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1 PHASE INPUT - 1 PHASE OUTPUT

MODEL	NM-1KVA	NML-1KVA	NP-2KVA	NPL-2KVA	NR-3KVA	NRL-3KVA
POWER (W)	1000 W		2000 W		3000 W	
INPUT						
Voltage	208/220/230/240 VAC (L + N + PE)					
Voltage Tolerance	110 - 300 V AC					
Power Factor (Full Load)	> 0,99					
Frequency	50 / 60 Hz \pm 10 Hz					
Protection	Electronic Current Limitation in Rectifier, Over Voltage Protection, Fast Fuses					
OUTPUT						
Power Factor	1,0					
Voltage	208/220/230/240 VAC (L + N + PE)					
Voltage Tolerance	\pm 1%					
Frequency	50 -60 Hz					
Frequency Tolerance	\pm 0,05% (With Battery Mode)					
Wave Form	Pure Sine Wave					
Transfer Time	0 ms (AC Mode to Battery Mode)					
THD (100% Linear Load)	\leq 3%					
THD (100% Non-Linear Load)	\leq 5%					
Crest Factor	3:1					
Overload Protection (AC Mode)	102 - 110% Load 30 min. 110 - 130% Load 10 min. 130 - 150% Load 30 s. > 150% 200 ms.					
Short Circuit Protection	Electronic Short Circuit Protection					
Communication Interface	RS 232					
BATTERY						
Number of Batteries	2	3	4	6	6	8
Charging Voltage	27 VDC	40,5 VDC	108 VDC	81 VDC	81 VDC	108 VDC
Discharging Voltage	20 VDC	30 VDC	40 VDC	60 VDC	60 VDC	80 VDC
Charging Current	1A	5A	1A	5A	1A	5A
Battery Operation Warning	Buzzer and Display alert					
Battery Low Protection	Auto Shut off					
Battery Cabinet	Internal	External	Internal	External	Internal	External
GENERAL						
Control Panel	LCD Display and Multiple selection keys					
Operating Temperature	0 C - 40 C					
Noise Level (1 meter)	\leq 50 dBA					
Protection Class	IP 20					
Altitude	1000 m - 4000 m (IEC62040)					
Humidity	95% max.					
Weight kg	9	5	17	9	21,4	9
Dimensions (wxdxh) mm	349x144x225		395x190x225		395x190x325	

