

Powering Possibilities. Connecting Futures.

# Modular Online UPS +Power E Series

# **+Power E Series**

E stands for many things but for the Neuropower +Power E UPS Series, E stands for easy, economic, efficient, ease, exceptional and excellent. The +Power E is easy to set up, easy to operate and easy to maintain. Whilst it is priced so economically, its high efficiency of up to 96% through pure online double conversion technology brings users predictable utility costs and maximum critical application power protection, keeping users at ease all the time.

The exceptional Neuropower +Power E Series in terms of competitive specifications comes together with robust mechanical and electrical (M&E) design and is the excellent choice when it comes to power protection solutions for various sectors including small to medium data centers.





MEDICAL SUPPORT SYSTEM



## +Power E Series 20kVA-90kVA features

In providing a constant and reliable power supply, the +Power E modular UPS comes with excellent features that support its quality output.

#### 1. True online double conversion technology for pure sine wave output

Converting power twice to produce a smooth and clean output for sensitive equipment. It also enhances equipment performance and efficiency while avoiding the possibilities of power fluctuations.

#### 2. N+X parallel redundancy up to 3 units of power modules

Suitable for critical applications with high power consumption. Ensuring the total load demand is met by all working UPS power modules by sharing the load between themselves equally. If one of the power modules fails and needs maintenance, the power module on standby will take over and support the load.



#### 3. Hot swappable power modules design

Benefiting users with modular design through its hot-swappable modules. It minimizes the UPS's mean-time-to-repair (MTTR) even further than regular modular UPS designs.

#### 4. Accessible control panels and hot swappable power modules via front of UPS

All control panels and connectors are accessible from the UPS's front making it easy for UPS status reading, installation and maintenance process.



Control panel of +Power E series.

#### 5. 5.7" LCD information display with mimic flow

Allows easy monitoring and control experience of the UPS parameters. This includes load level, battery level, input or output voltage, discharge time and fault conditions.

#### 6. Adjustable battery configuration and battery charging current

Giving users the convenience in ensuring an optimum charging current for all battery ratings used to have a longer battery backup time.

#### 7. Output THDv < 1% for linear load and < 4% for non-linear load

UPS will perform with high efficiency in providing a reliable and distortion free power supply keeping users at ease all the time. This is possible as it achieves to minimize the detrimental effect of harmonic distortion on the output by < 1% for the linear load and < 4% for the non-linear load.



# 8. UPS chassis comes with scalable internal battery for configurable back up time

Another feature that eases users while benefiting them with the use of modular design. The battery packs can be easily accessed and adjusted directly within the UPS's chassis depending on the backup time needed.

# 9. DSP technology with active power factor correction in all phases

Perfect for critical applications, this feature ensures users with a high output performance from the UPS at a high power efficiency (up to 96% with output power factor 1.0).





### +Power E Series Models

Comes with convenient features and a variety of power ratings to provide a versatile user-friendly power protection solution. This series is available with and without a battery cabinet.







# **Technical Specification**

	Model	+POWER E 20KS	+POWER E 40KS	+POWER E 60KS	+POWER E 30KS	+POWER E 60KS	+POWER E 90KS
Specification	Topology	Online Double Conversion					
	Total UPS Capacity (kW)	20	40	60	30	60	90
	Power Module Quantity	1	2	3	1	2	3
	Power Module Rating (kVA / kW)		20 / 20		30 / 30		
Input	Nominal Voltage (VAC)	3 x 380/400/415 (4 Wires, 3Ph + N)					
	Voltage Range (VAC)	305 - 477 @ 100% Load; 208 - 304 @ < 70% Load					
	Nominal Frequency (Hz)	50 or 60 (Auto Sensing)					
	Frequency Range (Hz)	40 - 70					
	Power Factor	> 0.99 at 100% Load, > 0.98 at 50% Load					
	Harmonic Distortion (THDi)	< 3% at 100% Load					
Output	Nominal Voltage (VAC)	3 x 380/400/415 (4 Wires, 3Ph + N)					
	Voltage Regulation (Steady State)	≤ ± 1% Typical (Balanced Load); ≤ ± 2% Typical (Unbalanced Load)					
	Voltage Regulation (Transient)	≤ ± 5% (Typical)					
	Nominal Frequency (Hz)	50 or 60					
	Synchronized FrequencyRange (Hz)	46 - 54 or 56 - 64					
	Overload Capacity	1 hour 110%, 10 mins for 125%, 1 min for 15%, 200ms for >150%					
	Harmonic Distortion (THDv)	≤ 1% (Linear Load); ≤ 4% (Non-Linear Load)					
	Efficiency	> 96% over 50% Load; > 95% over 25% Load					
	Outlet	Terminal Block					
Battery and Charger	Nominal Voltage (VDC)	± 216 (12 x 36pcs)					
	Maximum Voltage (VDC)	± 240 (12 x 40pcs)					
	Minimum Voltage (VDC)	± 192 (12 x 32 pcs)					
	Float Charging Voltage (V / Cell)	2.25					
	Boost Charging Voltage (V / Cell)	2.35					
	Temperature Compensation	Yes					
	Maximum Charging Current	6A for (20kVA) Power Module / 8A for (30kVA) Power Module (User Adjustable)					
Communication	Interface Port	USB or RS232					
	Intelligent Slot	AS400 / SNMP (optional)					
	Emergency power off (EPO)	Yes					
Power Management	Software	Yes, supports Windows family, Unix, Linux, Ubuntu, Solaris and MAC operating system					
Operating Environment	Operating Temperature (°C)	0- 40					
	Relative Humidity	0 - 95% Non Condensation					
	Altitude	< 1000m for Nominal Power					
Physical	Dimension, W x D x H (mm)	515 x 1000 x 760 (without Battery Cabinet); 515 x 1000 x 1370 (with Battery Cabinet)					
Design standards	Safety	IEC/EN 60950-1, IEC/EN 62040-1					
	EMC	IEC/EN 60240-1, category C3					
	IP classification	IP 20					

• Every battery module consist 10 pieces of 12V9AH sealed lead acid batteries. For a complete DC link system, it requires 4 battery modules.

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