

# NEUROPOWER

Powering Possibilities.  
Connecting Futures.



- Modular Online UPS
- **+Power A Series**

# +Power A Series

Neuropower's +Power A stands for advance and it is innovated solely for systems that require large modular UPS capacity (120kVA to 600kVA) without much physical space prepared for the UPS system.

With an extra cautious and smart choice of electrical components, the +Power A packs all the amazingness of the +Power UPS entirely while upsizing the usual single 3U power module's capacity to 60kVA per 3U module for extra space efficiency. Thus, gives users the luxury to have 120kVA or even 600kVA worth of modular UPS power modules to be installed in one single 30U or 42U chassis, fitting adequately wherever there are space constraints to provide uncompromised power protection to critical applications without neglecting convenience for the users.

[1U = 1.75 inches]



**MEDICAL IMAGING  
SUPPORT**



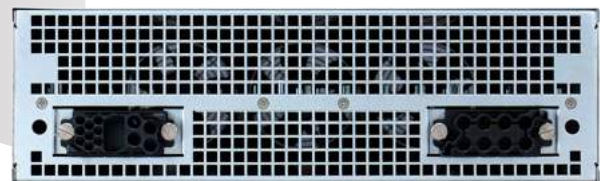
**DATA CENTRE**



**INDUSTRIAL  
APPLICATION**

# +Power A Series 120kVA-600kVA features

Learn what makes Neuropower's +Power A UPS a unique choice to provide a reliable and constant power supply for critical applications.



## 1. Hot-swappable power modules, STS modules and battery modules

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.

## 2. Variety of communications options to monitor the UPS constantly

Manage your power smartly by connecting to any HIDs (Human Interface Devices) such as a USB port or RS232, dry contact, Emergency Power Off (EPO) as a safety feature and intelligent slot (SNMP or Modbus).

## 3. Built-in maintenance bypass

To facilitate convenient UPS system maintenance procedures without powering down the load and to avoid possibilities of data loss or equipment damage. All control panels and connectors are accessible from the UPS's front.

#### 4. Available in 5" to 7" Touch LCD display with mimic flow diagram

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.

#### 5. 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 (95.5% with output power factor 1.0).



#### 6. N+X parallel redundancy up to 600kVA in a single chassis

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.



## 7. Pure sinewave output using true double conversion technology

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.



Rear view of +Power A 42U system's showing the location of its dual input.

## 8. Dual inputs with wide input range

To ensure power continuity for facilities or areas with critical power conditions. The UPS can draw power from two different sources at a wider range of input voltage to ensure that it has an ever ready power to supply and also to conserve battery power for emergencies only.

# +Power A Series Models

This UPS comes with highly convenient features and a variety of power ratings to provide a versatile power protection solution.



+Power A series  
500kVA & 600kVA



+Power A series  
300kVA & 420kVA




+Power A series  
120kVA & 180kVA

# Technical Specification

	No. of UPS Power Module(s)	2	3	5	7	8	10
Specification	Model	+POWER A 120KS	+POWER A 180KS	+POWER A 300KS	+POWER A 420KS	+POWER A 500KS	+POWER A 600KS
	Total UPS Capacity (kW)	120	180	300	420	500	600
	Topology	Online Double Conversion					
Input	Nominal Voltage (VAC)	3 x 380 / 400 / 415 (3Ph + N)					
	Voltage Range (VAC)	-30% to +20%					
	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 (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 Frequency Range (Hz)		46-54 or 56-64					
Overload Capability		1 hour for ≤ 110%, 10 mins for 111 - 125%, 1 min for 126 - 150%, 200ms for >150%					
Harmonic Distortion (THD)		≤ 2% (Linear Load), ≤ 4% (Non-Linear Load)					
Efficiency		96%					
Outlet		Terminal Block					
Battery or Charger	Nominal Voltage (VDC)	± 192 to ± 240 (Selectable)					
	Maximum Voltage (VDC)	± 240 (12 x 40pcs)					
	Minimum Voltage (VDC)	± 192 (12 x 32 pcs)					
	Float Charging Voltage (VDC)	13.7 x N; [N=16 - 20]					
	Boost Charging Voltage (VDC)	14.1 x N; [N=16 - 20]					
	Temperature Compensation	Standard					
	Charging Current per Power Module (A)	1 - 18 ± 1 (User Adjustable)					
Physical	Chassis Dimension, W x D x H (mm)	600 x 1100 x 1475 (30U)		600 x 1100 x 2010 (42U)		1200 x 1100 x 2000 (42U)	
	Net Weight (kg)	308	352	516	654	932	1020
Communication	Interface Port	USB, Smart RS 232, EPO and Intelligent Slot					
	Intelligent Slot	2 x AS400 / SNMP - optional					
	Emergency Power Off (EPO)	Yes					
Power Management	Software	Yes, supports Windows family, Linux, and MAC operating system					
Operating Environment & Design Standards	Operation Temperature (°C)	0- 40					
	Relative Humidity	0 - 95%Non-Condensing					
	Altitude	< 1000m for Nominal Power					
	IP Class	IP 20					
	Safety	IEC/ EN 62040-1					
EMC	IEC/EN 62040-2 category C3						

- When temperature is above 30°C, the output power factor will be derated, 0.8 at 31-35°C and 0.7 at 36-40°C.
- One battery module consist 10 pieces of 12V7AH or 12V9AH sealed lead acid batteries in one tray.
- One complete battery set requires 4 battery modules.
- If the UPS is installed or used in a place where the altitude is above 1000m, the output power will be derated by 1% per 100m.

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