



GAMATRONIC

A SolarEdge Division

Power+ *Premium60*



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Power+ *Premium*60

The Power+ Premium 60 is an innovative modular system with an attractive modern design. High end technology provides the customer with greater power and increased efficiency via an enhanced modular system.

Power+ Premium 60 is a modular 15–60 kVA UPS system with a proven design. Easily upgradable on-site through addition of plug-and-play 15kVA modules, Power+ Premium 60 is a parallel redundant UPS.

The system is comprised of 1 to 4 modules of 15 kVA each, a system controller and a static switch module. Power+ Premium 60 offers the optimal combination of efficiency, economy, and usability – and boasts the industry’s lowest Total Cost of Ownership (TCO) and fastest Return on Investment (ROI).

Features:

- Advanced colorful LDC touch screen
- True online battery
- Up to 95% efficiency
- High power output
- Small footprint
- Lightweight
- Hot swappable power modules
- Hot swappable system controller
- Rack/Tower convertible unit. Available as an independent UPS or rack mountable to fit into a 19" cabinet.

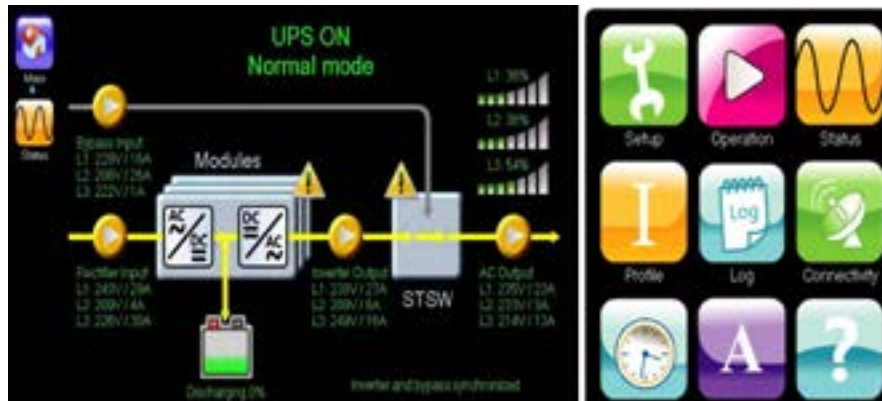


Technical Specifications for the System Controller

Display	LCD flat panel, touch-sensitive
Other indicators	Audible alarm
Analog input channels	4 input dry contacts (N.O. / N.C.)
Real-time clock (RTC)	Yes, with backup
Power meter	kVA, kW, PF
Volt-free outputs (dry contacts)	6 outputs, rated 48 V / 1 A
Output dry contacts	AC failure DC failure UPS module(s) failure Load on bypass Battery test failure Over/under temperature Overload (Each system alarm type can be routed to the dry contact of your choice)
Communication ports	Serial, Ethernet, USB
Communication protocols	RS232, RS485, TCP/IP, SNMP, Modbus
Communications with system modules	Serial, isolated
Events log	500 events
System operation without controller	Unchanged
On-screen parameters	Load bar-graph 3-phase voltages 3-phase currents Battery voltage Status of each UPS module Static-switch parameters and status Battery sensor temperature
RTC operation without power	Indefinitely
Power requirements	3 × 400 Vac and 405 Vdc
Remote indication panel capability	Yes

* All specifications are subject to change without prior notice.

The PC-based controller enhances data centre management systems with its unique abilities:



- Built-in flexible connectivity
- Intelligent and intuitive interface
- Fail-safe (non-critical for UPS operation)
- Hot swappable
- RS232
- Modbus RS485
- Modbus TCP/IP
- USB
- SNMP
- Embedded web interface
- Configurable dry contacts
- Unlimited servers shutdown
- Unlimited email notifications
- Data-rich system log
- Multi-language interface





THE POWER PLUS PREMIUM 60 TECHNICAL SPECIFICATIONS

PREMIUM MODEL	15 kW	30 kW	45 kW	60 kW
Architecture				
Topology	Modular, hot swappable, double-conversion, VFI, true online battery			
Operation	Continuous			
Input				
Nominal voltage (Vac)	3x400 (4 wires + Gnd)			
Voltage range (%)	±15			
Maximum current (A)	3x27 per module – no inrush current at startup			
Frequency (Hz)	47 ~ 63			
Power walk-in (s)	1 to 30 in 1 s intervals			
Power factor correction	0.99			
THDI (%)	<5 %			
Inrush current	None			
Output				
Rated power (kVA/kW)	15/15	30/30	45/45	60/60
Nominal voltage (Vac)	3x380, 3x400, 3x415 (4 wires +Gnd)			
Frequency, in free-running mode (Hz)	50/60 ±0.1 %			
Frequency tracking range (Hz)	±0.5, ±1, ±2, ±3, ±4 (selectable)			
Frequency tracking slew rate (Hz/sec)	1.			
Static regulation (%)	±1			
Regulation for unbalanced load (%)	±1 for 100 % unbalanced load			
Dynamic response to 100 % load step (%)	±2			
Overload withstand	Inverter mode	110 % : 10 minutes, 125 % : 60 seconds		
	Bypass mode	125 % : 10 minutes, 1000 % : 1 cycle		
Waveform	Sinusoidal			
THD (%)	Linear load: <3; non-linear load: <6			
Load CF (max)	6:1			
AC/AC efficiency, nominal (%)	Up to 95			
DC/AC efficiency, nominal (%)	Up to 98			
Batteries				
DC-Link Voltage (Vdc)	±320 to ±405			
Quantity and type	60 x 12 Vdc, 20 Ah, sealed, lead acid, rechargeable			
Typical backup time for 1 to 4 modules	15 kW	30 kW	45 kW	60 kW
Full load (minutes)	28	10	5	2
Half load (minutes)	78	28	17	9
General				
Maximum power dissipation (Po=15 kW)	625 W = 2133 BTU/hr	1250 W = 4266 BTU/hr	1875 W = 6399 BTU/hr	2500 W = 8532 BTU/hr
Fuse clearance capability	Input, output, DC link			
Ambient temperature (°C)	-10 to +40 (operating), -20 to +60 (storage)			
Relative humidity (%)	95 maximum, non-condensing			
Altitude (m)	1500 without derating			
Enclosure	IP20			
Cooling system	Forced air: multi-fan with speed control			
Standards				
Safety	IEC 62040-1			
EMC	IEC 62040-2			
Design	IEC 62040-3			
Low magnetic field radiation	EMF as per ICNIRP			
Weight of single power module (kg)	10.5			
Dimensions (mm)	800 (H, with wheels; 17U w/o wheels) x 487 (W) x 700 (D)			
Weight (kg)	68.5	79	89.5	100
Battery box dimensions (mm): 985 (H) x 540 (W) x 743 (D); weight (empty): 66 kg				

All specifications are subject to change without advance notice.



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Gamatronic strives to provide reliable and flexible power solutions to ensure optimal efficiency, empowering your business to help you achieve your goals.

Our Power, Your Confidence

www.gamatronic.com

