

UPS system DEFENDER

The highest level of protection.



UPS system Defender 12M60B

Highlights

- | Hot swap technology
- | On-line with double conversion
- | Galvanic isolation between input and output
- | 100% front installation and usage
- | Wide temperature range of operation
- | Fail-safe modular structure combined with fault-tolerant solutions

HIGHLY RELIABLE. MODULAR. HOT.

Defender – the highest level of protection for highly important power equipment.

Performance

Defender series presents a modular VFI UPS system. VFI is the double conversion mode for highest level of power conditioning. It protects the load from all types of electrical network disturbances using a greater amount of energy. A galvanic isolation between input and output is also provided. Only the presence of these factors guarantees a maximum protection for the load.

Reliability

Great redundancy is provided. A failure in any of the modules does not have any influence on the system functionality. An outage of the whole system is not possible.

Scalability

The Defender UPS system can be easily scaled. A 42U cabinet contains a power distribution unit and can house up to 12 UPS modules.

Simplicity

Setting up and controlling via 2 buttons beside the display. Hot swap technology for fast and safe UPS module exchange. The real time-saving and cost-reducing plug & play system.

Monitoring and control

Communication via HTTP, SNMP. Integrated web server and IPS' global cloud monitoring.

Technical data

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Input (AC)	
Voltage, nominal	230 V (3 x 400 V)
Voltage, operating range*	70 V ... 292 V
Frequency	0 Hz ... 80 Hz
Power factor	> 0.99
THDi	< 4%
Output (AC)	
Voltage	230 V (3 x 400 V)
Power, nominal	Up to 500 kVA
Frequency	50 Hz \pm 0.05%
Voltage tolerance, static	\leq 1%
Voltage tolerance, dynamic	\leq 5% at 100% load step
Voltage tolerance, asymmetric load	\leq 2% at 100% asymmetric load
Other specifications	
Features & Benefits	<ul style="list-style-type: none"> Pure sine wave AC output On-line with double voltage conversion Galvanic isolation between input and output Hot swappable UPS modules Six Nines availability Unlimited autonomous time of operation Automatic and manual bypass Temperature compensation of the battery Battery test and asymmetry control Digital, light and sound signaling
Protection	<ul style="list-style-type: none"> Protects connected loads from surges, spikes, lightning Protection against overload and short circuit at the output Protection against deep battery discharge Protection against high temperature
Operating conditions	
Ambient temperature	-40°C ... +80°C
Operating altitude	\leq 3000 m a.s.l.

*Power de-rating @ 70-140 VAC



UPS module U4000

IPS International Power Supply