

Mars II Parallel Redundancy On-line UPS

Rittal can now offer a cost efficient serie of single-phase UPS systems ranging from 750VA to 10kVA that includes both rack and tower units, line-interactive and on-line. Expandable battery-systems.

The Mars II series On-line double conversion UPS with full-time Digital Signal Processor control technology is the perfect solution for mission critical users who demand high reliability, availability and performance from a UPS. Input power factor correction, high efficiency and parallel redundant capability provide a superior level of power quality for sensitive electronic equipment and computer loads.



- Simple Parallel Installation
- Full-time Digital Signal Processor Control
- Programmable Frequency Converter
- LCD/LED Mimic Panel
- Smart ECO Mode
- Simple and Easy to Use
- Power Range and Runtime Scalability
- Optional Galvanic Isolation Transformer
- Optional Hot Swappable Battery
- Optional Dual Input Loops

About Rittal UPS's.

The Rittal UPS's is ideally suited to all applications in the IT environment, as well as for all other requirements such as medical technology, automation technology, plant control etc.

A scalable autonomy of up to 2 h at 100 % load ensures a broad spectrum of applications.

Batteries "hot swap" compatible, may be exchanged from the front. 10-year batteries available at request. Rittal also offer bigger UPS systems, range from 10 kVA to 2,7 MVA.

On-line UPS

Technical specification

Model	XSEMSII4500	XSEMSII6000	XSEMSII8000	XSEMSII10000
INPUT				
Voltage Window	160 ~ 280Vac		160 ~ 280Vac (1 ϕ) / 277 ~ 485Vac (3 ϕ)*	
Frequency	45 ~ 65 Hz			
Phase / Wire	Single, Line + Neutral + Ground		Single, Line + Neutral + Ground (1 ϕ); Three, R, S, T + Neutral + Ground (3 ϕ)	
Power Factor	Up to 0.99 at 100% Linear Load			
Current THD (100% linear load)	<6% **			
OUTPUT				
Capacity	4500VA / 3150W	6000VA / 4200W	8000VA / 5600W	10000VA / 7000W
Rated Power Factor	0.7 Lagging			
Wave Form	Sine Wave, THD < 3% (no load to full load)			
Frequency Stability	$\pm 0.2\%$ (Free Running)			
Frequency Regulation	$\pm 1\text{Hz}$; $\pm 3\text{Hz}$			
Transfer Time	0ms			
Crest Factor	3:1			
Efficiency (AC to AC, Normal)	Up to 90%			
Efficiency (AC to AC, ECO)	Up to 95%			
Autonomy	≈ 12 min	≈ 8 min		≈ 5 min
DC Start	Yes			
BATTERY				
Type	Sealed Lead Acid Maintenance Free			
Capacity	12V / 7AH			12V / 9AH
Quantity	20pcs			
Voltage	240Vdc			
Recharge Time	4 hours to 90%		5 hours to 90%	
DISPLAY				
Status on LED + LCD	Line Mode, Backup Mode, ECO Mode, Bypass Supply, Battery Low, Battery Bad/Disconnect, Overload, Transferring with interruption & UPS Fault.			
Readings on LCD	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage & Inner Temperature.			
Self-Diagnostics	Upon Power-on, Front Panel Setting & Software Control, 24-hour Routine Checking			
ALARMS				
Audible and Visual	Line Failure, Battery Low, Transfer to Bypass, System Fault Conditions			
PROTECTION				
Overload (w/simulated thermal tripping I-T Curve)	Inverter Supply: 105%~150% for 160 seconds~2 cycles before switching bypass. Bypass Supply: 105%~200% for 500 seconds~8 cycles before stopping supply load.			
Short Circuit	Switch off Immediately			
Overheat	AC Mode: Switch to Bypass Backup Mode: Switch off the UPS			
Battery Low	Alarm and Switch Off			
Noise Suppression	Complies with EN62040-2			
Spike Suppression	Complies with EN61000-4-5			
Heat Dissipation (At Full Linear Load)***	Without Isolated Transformer	< 450W		10K: <600W 10KP: <550W
	With Isolated Transformer	< 615W		10K: <1100W 10KP: <1050W
Leakage Current	< 3mA at Full Load			
PHYSICAL				
Dimensions WxHxD(mm / inch)	without transformer	290x748x645 / 11.4x29.5x25.4		
	With transformer	290x748x645 / 11.4x29.5x25.4		290x881x645 / 11.4x34.7x25.4
Input/Output Connection	Hardwire			
External Battery Connection	Plug-in & Play			
Net Weight (without transformer)	Standard Unit / Hot Swappable unit	86/112kgs (190/247 lbs)		8K: 87/113kgs (192/249 lbs) ; 8KP: 92/118kgs (203/260 lbs) ; 10K: 96/122kgs (215/269 lbs) ; 10KP: 101/127kgs (223/280 lbs)
Net Weight (with transformer)	Standard Unit / Hot Swappable unit	120/146kgs (265/322 lbs)		8K: 140/166kgs (309/366 lbs) ; 8KP: 145/171kgs (320/377 lbs) ; 10K: 149/175kgs (329/386 lbs) ; 10KP: 154/180kgs (340/397 lbs)

Vill du veta mer?

Ring våra innesäljare eller besök www.rittal.se.

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