

Modular UPS Series

Advanced Modular Design and Redundant Power System

MD100~500F is designed to protect any critical load for medium and large data center.

With the latest technology of 3-level technology and PFC input control, it guarantees high efficiency up to 96%

The power capacity is from 100 to 500kVA, it's the ideal choice for data center & telecom industrial.

MD-F 100-500

High efficiency & Compact design

High efficiency and capacity with less Volume

Rack Modular Design

50kVA power module in 4U height, easy to expand the capacity

Parallel Compatibility

3 units in parallel for a capacity up to 300 ~ 1500KVA

Colorful touch screen LCD

Monitoring of ATS/ UPS/ PDU, friendly interface & comprehensive DATA



MD100F



MD200F



MD300F



MD500F

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MD-F 100-500

Specifications

MODEL	MD100F	MD200F	MD300F	MD500F	
Maximum Capacity	100KVA	200KVA	300KVA	500KVA	
Power Module	50KVA/45KW				
Maximum Number Built-in Power Module	2pcs	4pcs	6pcs	10pcs	
Topology	Modular On-Line / Double Conversion / High Frequency				
On-battery Output Waveform	Pure Sine Wave				
INPUT					
Nominal Voltage	380V / 400V / 415V 3P4W + G				
Nominal Frequency	50 / 60 Hz				
Power factor	>0.99				
Input Voltage Regulation	-20% ~ +15% Full Load				
Input Frequency Regulation	40 - 70Hz				
Input THDi	<3% (100%linear load)				
OUTPUT					
Nominal Voltage	380V / 400V / 415V 3P4W + G				
Voltage Precision	±1.5% (0~100% linear load)				
Voltage THDV (Total Harmonic Distortion)	THD < 1% (Linear Load), THD < 6% (Nonlinear Load)				
Power Factor	1				
Crest Factor	3 : 1				
Overload Capacity	110%, Transfer to Bypass after 1hr				
	110%<Load<125%, Operation Time for 10mins				
	125%<Load<150%, Operation Time for 1min				
	150%<Load<200%, Operation Time for 200ms				
BATTERY					
Battery Voltage	±240VDC				
Charger Power	20% Power				
Battery Cold Start	Yes				
BYPASS					
Bypass Allowable Voltage Range	-40% ~ +25% settable				
Bypass Frequency	±1% ~ 5% settable				
Bypass Overload Capacity	125%, Long Time Operation		110%, Long Time Operation		
	125%<Load<130%, Operation Time for 10mins		110%<Load<125%, Operation Time for 5mins		
	130%<Load<150%, Operation Time for 1min		125%<Load<150%, Operation Time for 1min		
	150%<Load<200%, Operation Time for 300ms		150%<Load<200%, Operation Time for 1sec		
SYSTEM					
Line mode Efficiency	Normal Mode	96%			
	ECO Mode	99%			
Battery mode Efficiency	96%				
Display	LCD+LED, Touch Screen & Keyboard				
IP Class	IP20				
Communication Interface	RS232, RS485, Dry Contact & SNMP Slot				
ENVIRONMENTAL					
Operation Temperature	0 - 40°C				
Storage Temperature	-25 - 70°C				
Relative Humidity	0 - 95% (Non-condensing)				
Noise (dB)	< 65dB				
Altitude of Operation	≤1000,load derated 1% per 100m from 1000m and 2000m				
PHYSICAL					
Cabinet	Dimension (WxDxH)	600×980×1150 mm	650×960×1600 mm	650×970×2000 mm	1300×1100×2000 mm
	Weight	120kg	170kg	220kg	450kg
Power Module	Dimension (WxDxH)	510×700×178 mm			
	Weight	45kg			

Specifications are subject to change without notice.