

Modular UPS System

Green and energy saving product, state of the art design

MD series modularized UPS maintains the technical features of traditional tower-type UPS and adopts modularized design to meet the need of modern service room, while ensuring the high reliability of the system. MD series offers various power modules and cabinet systems, and the user can able to flexibly combine them according to load demand.

MD-H 60-600

MD-L 36-400

Features

- MD system is modular design, N+X redundancy, hot plugging for system or capacity expansion.
- Dual DSP for independent control of power module, no single point of failure.
- Digital control of rectification, inverter, gng and disging via DSP.
- Strong load adaptability and loading capacity, and excellent power grid applicability.
- Green and energy-saving power supply; overall efficiency: >95%; input power factor: > 0.99; input current harmonics: <3%.
- Integrated and packaged IGBT instead of discrete device to greatly enhance the reliability of power module and UPS system.
- Front panel for easy maintenance, inlet wire from top to bottom for easy connection by user.
- Large touch screen of human-machine interface, a great amount of information.
- Independent gng system, strong gng capacity, Perfect battery management scheme.
- Parallel connection technology of digital modules, precision circular current index.
- Easy to install even close to other equipments, space-saving footprint in service room.
- Redundancy and intelligent adjustable-speed fan, low noise, low power consumption.
- Integrated distribution system inside system cabinet, easy to install, low investment by user.
- Good matching performance with motor.
- DC Starting via battery (cold boot) for easy operation.
- Three-proofing treatment of all circuit boards.

Options

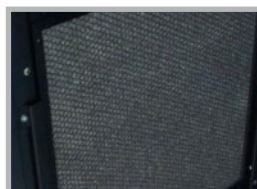
- SNMP Communication Card
- Cabinet Parallel kit
- Dust Proof Filter
- Battery Temperature Compensation Module



PDU



Monitoring module



Dust-proof filter



SNMP Communication Card
(Optional)



Touch screen

Modular UPS System

MD-H 60-600 / MD-L 36-400

Specifications

MODEL	MD60H	MD100H	MD120H	MD200H	MD300H	MD600H	
Maximum Capacity	60KVA	100KVA	120KVA	200KVA	300KVA	600KVA	
Power Module	10KVA		20KVA		30KVA		
Maximum Number Built-in Power Module	6pcs	10pcs	6pcs	10pcs	10pcs	20pcs	
Topology	Modular On-Line / Double Conversion / High Frequency						
On-battery Output Waveform	Pure Sine Wave						
INPUT							
Nominal Voltage	380V / 400V / 4150V 3P4W + G						
Nominal Frequency	50 / 60 Hz						
Power factor	>0.99						
Input Voltage Regulation	-20% ~ +25% Full Load						
Input Frequency Regulation	40 - 70Hz						
OUTPUT							
Nominal Voltage	380V / 400V / 4150V 3P4W + G						
Voltage Precision	1% (Balance Load), 1.5% (Unbalance Load)						
Voltage THDV (Total Harmonic Distortion)	THD<1.5% (Linear Load), THD<5% (Nonlinear Load)						
Power Factor	0.9						
Crest Factor	3 : 1						
Overload Capacity	105%, Trasfer to Bypass after 1hr						
	110%, Trasfer to Bypass after 10mins						
	125%, Trasfer to Bypass after 1min						
	150%, Trasfer to Bypass after 5sec						
>150%, Trasfer to Bypass after 200ms							
BATTERY							
Battery Voltage	±240VDC						
Charger Power	20% Power						
BYPASS							
Bypass Allowable Voltage Range	-20% ~ +15% Full Load						
Bypass Overload Capactility	125%, Long Time Operation						
	125%<Load<130%, Operation Time for 1hr						
	130%<Load<150%, Operation Time for 6mins						
	>1000%, Operation Time for 200ms						
SYSTEM							
Line mode Efficiency	Normal Mode	95%					
	ECO Mode	99%					
Battery mode Efficiency	95%						
Display	LCD+LED, Touch Screen & Keyboard						
IP Class	IP20						
Communication Interface	RS232, RS485, Dry Contact & SNMP Slot						
ENVIRONMENTAL							
Operation Temperature	0 - 40°C						
Storage Tmeperature	-25 - 70°C						
Relative Humidity	0 - 95% (Non-comdensing)						
Noise (dB)	<55dB						
PHYSICAL							
Cabinet	Dimension (WxDxH)	600×900×1600 mm	600×900×2000 mm	600×900×1600 mm	600×900×2000 mm	600×1100×2000 mm	2000×1050×2000 mm
	Weight	151kg	182kg	151kg	182kg	220kg	660kg
Power Module	Dimension (WxDxH)	440×590×134mm				460×790×134mm	
	Weight	20kg	20kg	22kg	22kg	34kg	34kg

Specifications are subject to change without notice.

Modular UPS System

MD-H 60-600 / MD-L 36-400

Specifications

MODEL	MD36L	MD60L	MD72L	MD120L	MD200L	MD400L	
Maximum Capacity	36KVA	60KVA	72KVA	120KVA	200KVA	400KVA	
Power Module	6KVA		12KVA		20KVA		
Maximum Number Built-in Power Module	6pcs	10pcs	6pcs	10pcs	10pcs	20pcs	
Topology	Modular On-Line / Double Conversion / High Frequency						
On-battery Output Waveform	Pure Sine Wave						
INPUT							
Nominal Voltage	200V / 208V 3P4W + G						
Nominal Frequency	50 / 60 Hz						
Power factor	>0.99						
Input Voltage Regulation	-20% ~ +25% Full Load						
Input Frequency Regulation	40 - 70Hz						
OUTPUT							
Nominal Voltage	200V / 208V 3P4W + G						
Voltage Precision	1% (Balance Load), 1.5% (Unbalance Load)						
Voltage THDV (Total Harmonic Distortion)	THD<1.5% (Linear Load), THD<5% (Nonlinear Load)						
Power Factor	0.8						
Crest Factor	3 : 1						
Overload Capacity	105%, Trasfer to Bypass after 1hr						
	110%, Trasfer to Bypass after 10mins						
	125%, Trasfer to Bypass after 1min						
	150%, Trasfer to Bypass after 5sec						
	>150%, Trasfer to Bypass after 200ms						
BATTERY							
Battery Voltage	±120VDC						
Charger Power	20% Power						
BYPASS							
Bypass Allowable Voltage Range	-20% ~ +15% Full Load						
Bypass Overload Capacitlity	125%, Long Time Operation						
	125%<Load<130%, Operation Time for 1hr						
	130%<Load<150%, Operation Time for 6mins						
	>1000%, Operation Time for 200ms						
SYSTEM							
Line mode	Normal Mode	90%					
Efficiency	ECO Mode	99%					
Battery mode Efficiency		90%					
Display	LCD+LED, Touch Screen & Keyboard						
IP Class	IP20						
Communication Interface	RS232, RS485, Dry Contact & SNMP Slot						
ENVIRONMENTAL							
Operation Temperature	0 - 40°C						
Storage Tmeperature	-25 - 70°C						
Relative Humidity	0 - 95% (Non-comdensing)						
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