

Modular DSP Online UPS MR33100 - 1000KVA 3 Phase

MR SERIES

Modular Hi Performance Online UPS



Features

- Centralized Parallel Control with Module Distributed Control
- Lowest Cost of Overall System (Cost, Maintenance, Management)
- N+X Parallel Redundancy Power 50KVA upto 1000KVA
- True Online Double Conversion with DSP 3-level Inverter Technology
- Dual Energy Control Modules Design Load Bus Synchronization
- 3-level Intelligent Charging Modes : Buck, Boost, Float
- MCCB Main, Bypass and Output with Manual Bypass
- HMI LCD Touch-screen 7 inch for user's friendly operation
- High Power Density up to 600KVA per rack for space saving
- Powerful Output Power Factor PF 1.0 for Partial & Full Load
- Efficiency UPS AC/AC Up to 96.5%
- Compact in size, only Rack19" 3U height, Hot Swap Module
- UPS Module Long Life UPS Superior MTBF and Low MTTR
- Emergency Power Off(EPO) / Economic Mode (ECO)
- Automatic Firmware Upgrade Via LCD Display
- EASY Management Battery Pack setting
- Isolated Transformer output (option)
- Powerful charger built in Modular and UPS frame
- Versatile communication interfaces provided for different applications
- Indoor Use IEC 60529 : IP21 Application
- Backfeed Protection/Scalable Power / Autonomy Time
- TIS1291.Part1-2553, Part2-2553, Part3-2555 : C3
- CE : IEC 62040-1,-2,-3, IEC 61000
- ISO9001/ISO14001 : 2015 Certification Manufacture

UPS Cabinet HMI Panel
LCD Color Touch Screen 7inch

Module LCD Panel



Modular Rack Option

- Isolated Transformer
- MBM & PDU Rack



3U Battery Unit

Battery Unit Rack



MR3340/50 3/3Phase



3U Battery Unit

APPLICATIONS



• Industrial Equipment



• Postal & Telecommunications



• Data Center & Server Room



• Hospital, Medical Equipment



• Large Internet Computer Room



• Financial And Securities

Chuphotic UPS Product range 10KVA to 500KVA have been wide useful to protect Electronic Equipment such as Computer, Server, Networks, PABX, CCTV, Telecommunications, Medical & Scientific Equipment and Industrial Machine from Power Quality Problem in Over / Under Voltage, Blackout, Surge, Spike, Harmonic, Noise and Frequency Drift.

Modular DSP Online MR Series

MODEL		MR33100	MR33150	MR33200	MR33300	MR33400	MR33500	MR33600	MR33800	MR331000
Capacity (VA / Watts)	UPS Cabinet	50~100 / 50~100k	50~150 / 50~150k	50~200 / 50~200k	50~300 / 50~300k	50~400 / 50~400k	50~500 / 50~500k	50~600 / 50~600k	50~800 / 50~800k	50~1000 / 50~1000k
	MR Module	MR3340-RM : 40kVA / 40kW OR MR3350-RM : 50kVA / 50kW								
	Max. Numver	2	3	4	6	8	10	12	16	20
INPUT										
Nominal Voltage		380 / 400 / 415 Vac, (3Ph-N+PE)								
Operating Voltage range		138~305Vac Linear Derating; 305~485Vac for 100% Load;								
Operating Frequency		50/60Hz Range 40Hz - 70Hz								
Power Factor		PF ≥0.99								
Harmonic Distortion (THDi)		THDi <3% (100% Linear Load)								
Bypass Voltage		Nominal Voltage : 380-400-415Vac Three Phase + Neutral Bypass Voltage range : 196V to 264V (Adjustable 250-264)								
Bypass Frequency		Frequency protection rang : 50Hz ±5%								
Generator Input		Support								
OUTPUT										
Rated Voltage		380 / 400 / 415Vac, (3Ph-N+PE)								
Power Factor		PF 1.0 (KVA=KW)								
Voltage Regulation		Static Stability ±1% / Voltage Phase Shift : 120±2°								
Frequency in Line Mode		±1% / ±2% / ±4% / ±5% / ±10% of Rated Frequency (optional)								
Frequency in Bat. Mode		(50/60 ± 0.1%)Hz with Rate of Frequency variation : 1Hz / sec (Adjustable)								
Crest Factor		3 : 1								
Hamonic Distortion (THDv)		≤1% with Linear Load / ≤ 3% with Full Distoring Load								
Efficiency (AC / AC)		eff : 96.5% @ Full Load								
BATTERY		SLA - AGM, GEL, NiCd - Wet, Lithium								
Battery Voltage		Optional Voltage : ±180V / ±192V / ±204V / ±216V / ±228V / ±240Vdc / ±264Vdc / ±276Vdc / ±288Vdc / ±300Vdc (30 / 32 / 34 / 36 / 38 / 40 / 42 / 44 / 46 / 48 / 50pcs)								
Charge Current(A)	UPS cabinet	60A(Max.)	80A(Max.)	120A(Max.)	160A(Max.)	200A(Max.)	240A(Max.)	300A(Max.)	400A(Max.)	500A(Max.)
	HPM module	20A(Max.) Adjustable								
SYSTEM FEATURES										
Transfer time		Utility to Battery : Oms; Utility to Bypass : Oms, Bypass to Inverter <2ms.								
Overload	Line Mode	110% for 60min, 125% for 10min, 150% for 1min, then transfer to Bypass								
	Bypass Mode	<135% @ <30°C or 125%@ <40°C : continuously 1000% for 100ms, then shut down								
Overheat		Line Mode : Switch to Bypass; Backup Mode: Shutdown UPS immediately								
Low Battery Voltage		Alarm and Switch off								
Self - Diagnostics		Up on Power On and Software Control								
EPC (optional)		Shutdown UPS immediately								
Battery		ABM : Advanced Battery Management								
Noise Suppression		Complies with EN62040-3 EMC								
Audible & Visualalarms		Line Failure, Battery Low, Overload, System Fault								
Status LED & LCD display		Line Mode, Bypass Mode, Battery Bad, Overload & UPS Fault								
Reading on the LCD display		Input / Output / Bypass : Volt, Amp, Freq. : Output Power (VA, W, %, PF) : Battery Votl, Amp, Temp, Status, Backup Time								
Communicatorinterface		USB CAN, RS485, RJ45, NET, Parallel, Dry Contact Auxiliary Signal Board, SNMP Card, Battery Temperature Sencer								
SNMP Card (TCP / IP)		Web Browser Management Software : Status / Control UPS (Temp & Humidity Sensor) with OS : Windows 2010, Linux, Mac OS X, Solaris 8 / 9								
ENVIRONMENTAL										
Operation Temperature		0°C ~ 40°C / Storage -25°C ~ 55°C								
Humidity Range		RH 0~95% (non condensing) / IEC 60529 : IP21								
Altitude		<1500m Sea level								
Noise Level (from 1M distance)		<63dB	<65dB	<68dB	<70dB					
PHYSICAL										
Dimension WxHxD (mm)	UPS Cabinet (SM)	600x1200x850		600x1600x	600x2000x850		1200x2000x	1400x2000x	1200x2000x850x2	
	UPS Cabinet (FM)			850			850	850		
	MR Mudule	442x130(3U)x620								
Net weight (kg)	UPS Cabinet	170	230	260	280 / 470	650	720	900	1300	
	MR Module	32								
STANDARDS										
TIS STANDARD		TIS.1291 Part1-2553, Part2-2553, Part3-2555								
CE : LVD / EMC / Performance		LVD : IEC/EN62040-1, IEC/EN60950-1 / EMC : IEC/EN62040-2, IEC61000-4 / Performance : IEC/EN 62040-3								

Specifications subject to change without prior notice.

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