

HITACHI Inspire the Next



Modular IT & Infra UPS System

Range: 60 kVA to 500 kVA (3:3)

HM33 Series

Exceptional safeguard against Power Disruption

HITACHI

About HM33 Series IT & Infra UPS

HM33 Series modular UPS provides the most compact footprint of less than 2m2 with maximum capacity of 900kVA. With best reliability and high performance, it has been leading the domestic market for years. HM33 series UPS is considered to be the best power protection solution for large data centres, as well as for sensitive electronics. The HM33 series UPS having user friendly LCD touch screen display. This display provides graphical and text information of alarms, status data, instructions and faults. User can have friendlier and safer operation.

The HM33 series UPS keeps your network protected while saving on cost and data centre space. With best in class true online double conversion technology,



Optional Features

- Isolation transformer
- SNMP card
- Capacity enhancement at site

Configuration

- Hot swappable modular concept
- Can be paralleled up to 30 modules

redundancy options and flexible battery configurations and provides best reliability. This UPS is the Next Generation of true online, double conversion digital modular UPS.

Designed to meet the high availability power for wide variety of applications (IT, non-IT & medical), HM33 series combines innovation and simplicity and low total cost of ownership. The result is a power system that delivers both reliability and a return on investment.

Total Solution for

- ISP (Internet Service Provider)
- IDC (Internet Data Center)
- Computer room, service center
- Intelligent equipment
- Corporate office

Features

- User friendly LCD display provides graphical and text based information
- Modular design of subsystem, convenient for field maintenance
- All components are in module so less fault point and higher reliability
- The hot-swappable power modules take unique structure design
- Alarms data store in system (890 alarms)
- Less space needed Inherently N+X redundant
- Smart sleep function can intelligently make some power modules go to sleep, when load is relatively low to increase efficiency
- Only front access up to 120 kVA UPS and front and rare access for higher ratings UPS
- On site setting supported, easy for factory testina
- Can be paralleled up to 30 modules
- Wide voltage and frequency range for input supply
- Available in 30 kVA and 50 kVA module for multiple available options
- Programmable dry contacts are available in HM series UPS



Technology

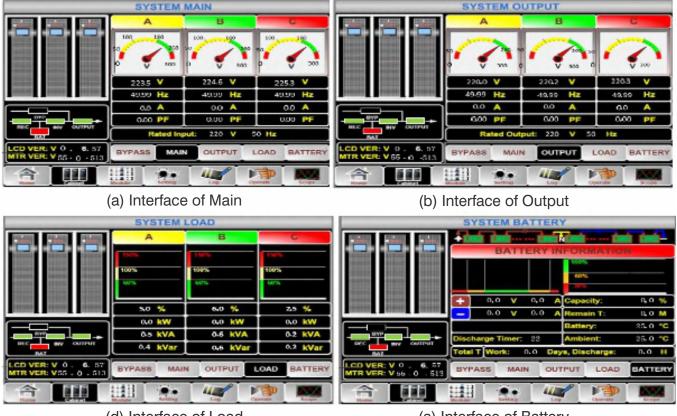
Fully DSP controlled IGBT based

Certification

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Friendly interface 7" LCD touch screen display provides graphical and text based information of alarms, status data, instructions for more friendly and safer operation.

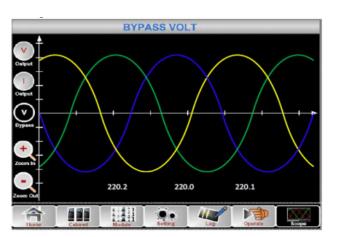


(d) Interface of Load

(a) Interface of Battery

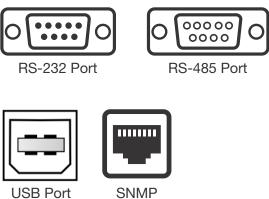
Smart Sleep Function

Smart sleep function can intelligently make some power modules go to sleep. When load is relatively low, improves the total system efficiency and save by using power and cooling cost. It offers easy setting with just two steps sleep mode and rotation period, power modules works in rotation, prolong the life time.



Output V/C waveforms on display

Communication Connection



SNMP

Technical Specifications

Model	HM-33-60 -3X	HM33-80 -3X	HM-33-90 -3X	HM-33-100 -5X	HM-33-120 -3X	HM-33-150 -5X	HM-33-200 -5X	HM-33-250 -5X	HM-33-300 -5X	HM-33-400 -5X	HM-33-500 -5X
POWER RATING	60 kVA	80 kVA	90 kVA	100 kVA	120 kVA	150 kVA	200 kVA	250 kVA	300 kVA	400 kVA	500 kVA
Main Input					1.20		200	1200	00011111	1.00	0001111
Grid System					3 Phases	s + Neutral	+ Ground				
Rated Input Voltage	3 Phases + Neutral + Ground 380/400/415 VAC										
Rated Frequency	50/40/413 VAC										
hated frequency											
Input Voltage Range	304~478 VAC (Line-Line), Full Load 228V~304 VAC (Line-Line), Load Decrease Linearly According to the Min Phase Voltage										
Input Frequency Range	42-60 Hz (Adjustable)										
Input Power Factor	>0.99										
Input Current THDi	<3% (Full Linear Load)										
Bypass Input											
Rated Bypass Voltage	380 V / 400 V / 415 V (Line to Line)										
Rated Frequency	±2%										
Bypass Voltage Range	Selectable, Default -20%~+15% Up Limited: +10%, +15%, +20%, +25% Down Limited: -10%, -15%, -20%, -30%, -40%										
Bypass Frequency Range	Selectable, ±1Hz, ±3Hz, ±5Hz										
bypass nequency hallye			10501			€, ± I ⊓Z, ±0	ארוכ, ±כול,				
Bypass Overload	125%, Long Time Operation110% long term operation125% < Load <130%, Last for more than 10 min								an 5 min an 1 min		
Output								I			
Rated Inverter Voltage					380/400	/415 VAC (ino-Lino)				
	380/400/415 VAC (Line-Line)										
Rated Frequency	50/60 Hz										
Output Power Factor	0.9										
Voltage Precision	±1%										
Transient Response	<5% for Step Load (20% - 80% - 20%)										
Transient Recovery	< 30 ms for Step Load (0% - 100% - 0%)										
	<1.5% from 0% to 100% Linear Load										
Output Voltage THDu	<6% Full Non-Linear Load According to IEC/EN62040-3										
Inverter Overload	<110%, 60 min; 110%~125%,10 min; 125%~150%,1 min; >150%, 200 ms										
Frequency Regulation	50/60 Hz±0.01%										
Synchronized Range	Settable, ±0.5 Hz ~ ±5 Hz, Default ±3 Hz										
Synchronized Slew Rate											
	Settable, 0.5 Hz/s ~ 3 Hz/s, Default 0.5 Hz/s										
Battery and Charger											
Battery Rate Voltage	±240 VDC (Battery Settable at 34 to 44 Nos. Even Numbers)										
Charger Voltage Precision	1%										
Charger Power	max=20% *Output Power										
Efficiency											
AC Mode (Overall)	>95% >96% >95% >96% >95%					>96%					
Battery Mode (Inverter)	>95% >96% >95% >96% >95%					>96%					
System		1				1					
Display					I FD + I	CD + Touc	h Screen				
Interface	LED + LCD + Touch Screen RS232, RS485, USB, Programmable Dry Contact RS232, RS485, USB, Programmable Dry Contact								e Dry Conta	act,	
Option				IP, Parallel k ents, Dust F		SNMP, A	S400, Para	allel Kit, Ligi		ection Com	iponents,
Environmental	Lightinit			Jinto, Duot F							
Environmental						0 4000					
Operation Temperature	0 ~ 40°C										
Storage Temperature	-40 ~ 70°C										
Relative Humidity	0 ~ 95% Non Condensing										
Noise (1 meter)	65dB @ 100% Load, 62dB @ 45% Load										
Altitude	<1000 m, Load Derated 1% per 100 m from 1000 ~ 2000 m										
Ingress Protection	IP 20										
Physical Data											
Cabinet Dimensions	600 × 090	600	v 090	600 - 080	600 × 000	6E0	v 060	650	v 060	1000	× 1100
(WxDxH) (mm) Cabinet Weight (kgs)	600 x 980 x 950	x 1	x 980 400	600 x 980 x 1150	600 x 980 x 1400	x 1	x 960 400	x 2	x 960 000	x 2	x 1100 000
	170	210	231	210	266	305	350	445	490	810	900



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