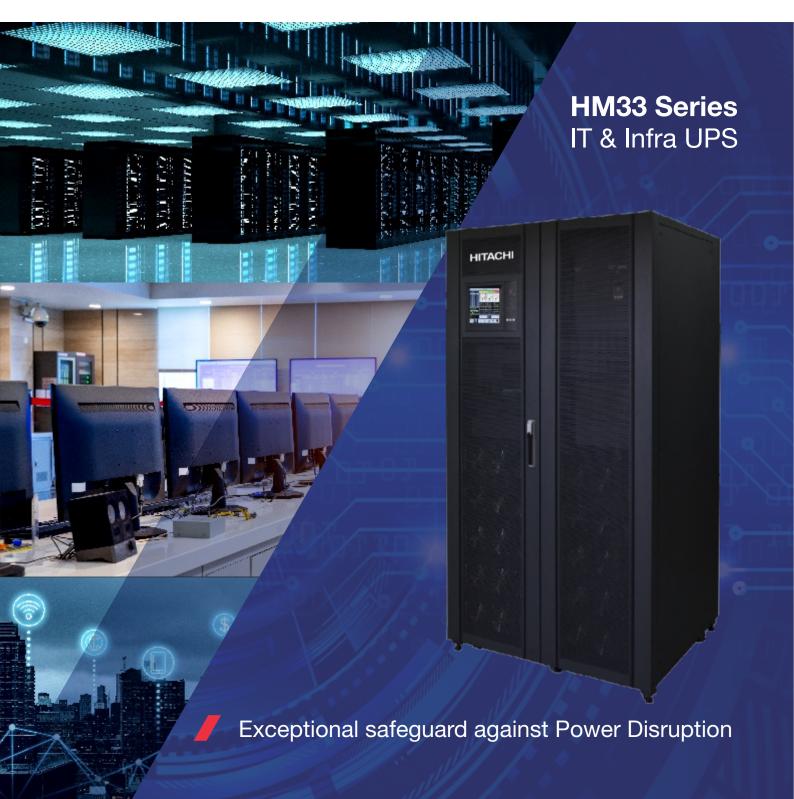




Modular IT & Infra UPS System

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





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
- 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







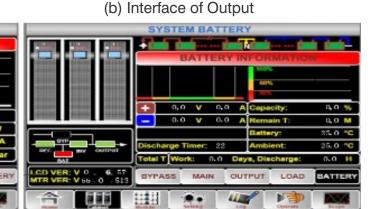


Control Panel

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



(a) Interface of Main



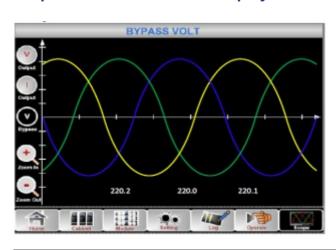
(d) Interface of Load

(a) Interface of Battery

Smart Sleep Function

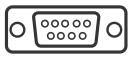
Smart sleep function can intelligently make some power modules go to sleep. When load is relatively low, improves the total system efficiency and save by using power and cooling cost. It offers easy setting with just two steps sleep mode and rotation period, power modules works in rotation, prolong the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

Output V/C waveforms on display



Communication Connection





RS-485 Port





USB Port

SNMP

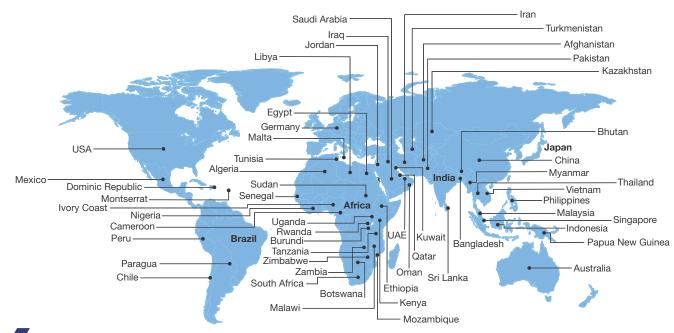


Technical Specifications

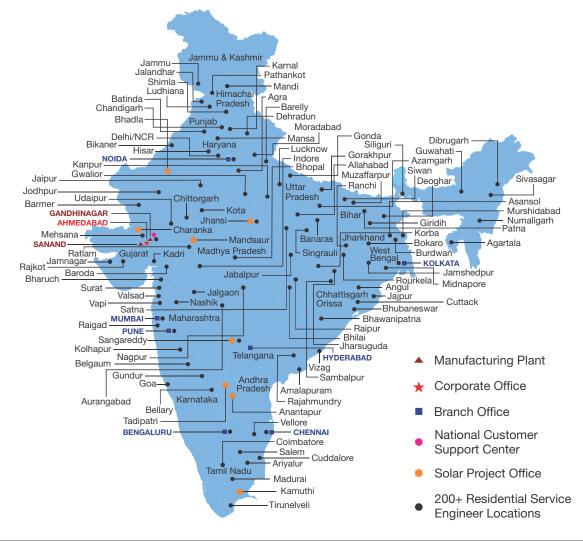
Model	HM-33-60 -3X	HM33-80 -3X	HM-33-90 -3X	HM-33-100 -5X	HM-33-120 -3X	HM-33-150 -5X	HM-33-200 -5X	HM-33-250 -5X	HM-33-300 -5X	HM-33-400 -5X	HM-33-50 -5X
POWER RATING	60 kVA	80 kVA	90 kVA	100 kVA	120 kVA	150 kVA	200 kVA	250 kVA	300 kVA	400 kVA	500 kVA
Main Input											
Grid System					3 Phases	+ Neutral -	+ Ground				
Rated Input Voltage	3 Phases + Neutral + Ground 380/400/415 VAC										
Rated Frequency	50/60 Hz										
Trated 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%										
	Selectable, ±1Hz, ±3Hz, ±5Hz										
Bypass Frequency Range					Selectable	e, ±1Hz, ±3	BHz, ±5Hz				
Bypass Overload	125%, Long Time Operation 125% < Load <130%, Last for more than 10 min 130% < Load <150%, Last for more than 1 min >150%, Last for more than 300 ms 110% long term operation 110% -125% last for more than 5 min 125% ~150% last for more than 1 min >150%, Last for more than 300 ms 110% long term operation										
Output											
Rated Inverter Voltage	380/400/415 VAC (Line-Line)										
Rated Frequency	50/60 Hz										
Output Power Factor	0.9										
Voltage Precision	±1%										
	The state of the s										
Transient Response	<5% for Step Load (20% - 80% - 20%)										
Transient Recovery	< 30 ms for Step Load (0% - 100% - 0%)										
Output Voltage THDu	<1.5% from 0% to 100% Linear Load <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										
, , , , , , , , , , , , , , , , , , , ,	Settable, 0.5 Hz/s ~ 3 Hz/s, Default 0.5 Hz/s										
Synchronized Slew Rate				Setta	ible, U.S HZ/	'S ~ 3 HZ/S,	Default 0.	o 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	0% *Output	Power				
Efficiency											
AC Mode (Overall)	>95%	>96%	>95%	>96%	>95%			>9	6%		
Battery Mode (Inverter)	>95%	>96%	>95%	>96%	>95%			>9	6%		
System											
Display					1 FD + 10	CD + Touch	Screen				
Interface	RS232, RS485, USB, Programmable Dry Contact RS232, RS485, USB, Programmable Dry Contact Battery Cold Start									act,	
Option	Battery Cold Start, SNMP, Parallel Kit, Lightning Protection Components, Dust Filter, LBS SNMP, AS400, Parallel Kit, Lightning Protection Components Dust Filter, LBS										ponents,
	Lightning	, i Totectioi	OUTIPOTIE	ino, Duoi F	iitei, LDO			Dust Fil	IGI, LDO		
Environmental						0 4000					
Operation Temperature	0 ~ 40°C										
Storage Temperature						-40 ~ 70°C					
Relative Humidity					0 ~ 95%	6 Non Con	densing				
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	000 000	222	. 000	000 - 000	000 - 000	050	. 000	250	. 000	1000	. 1100
(WxDxH) (mm)	600 x 980 x 950		x 980 400	600 x 980 x 1150	600 x 980 x 1400	650 x 1	k 960 400		x 960 000		x 1100 000
(VVXDXII) (IIIIII)											



Worldwide Presence



Pan India Presence



Manufactured By

@Hitachi Hi-Rel Power Electronics Private Limited

Manufacturing Works:

Plot No. SM 3 & 4, Sanand GIDC - II, Industrial Estate, Bol Village, Sanand - 382 110, Gujarat, India.

Authorized Power Partner:

Contact us:



PEIM SYSTEMS & SERVICES PVT.LTD.

Unit No: D1, 1st Floor, SOLUS, Jain Heights
1st A Cross, J C Road, Bangalore - 560002.

FACTORY & HEADOFFICE

No. 75, 6th Main, 3rd Phase, Peenya Indl. Area, Bangalore - 560 058

9844 03 41 06, 9902 27 24 99





NEW DELHI

912, 9th Floor, Mercantile House, 15, Kasturba Gandhi Marg, New Delhi- 110 001

CHENNAL

No. 25, 1# Floor Mahavishnu Nagar, 1# Street Ponniaammanmedhu, Madhavaram, Chennai -600110

MANGALORE

Shop No: 3-28/11 House, Malemar Road, Kottara Chowki, Mangaluru, Dakshina Kannada, Karnataka-575006

HYDERABAD

No:64-9/2 and 6-4-9/2/A Bholakpur, Secunderabad, Hyderabad, 500080

MUMBA

No. 620, Marathon Max, Mulund Goregaon ink Road, Mulund West, Mumbai -400080



BELGAUM

Ground Floor, Shop No: S-03, CTS No. 424/A,B,C,D, R.C.C Building, Amantran Anant Square, Tilakavadi, Near Congress Well, Belagavi, Karnataka 590006

VIJAYAWADA

C/O- Janddhyala Lakshmi Narasimha Sastry, D No:39-9-42, SVS Temple Street, Labbipet, Vijawada -520010

Trivandrum

TC 20/136(1), G Floor, Amar Plaza, Parthirapally Ward, Opposite Civil Station Compound, Kudapanakannu PO, Thiruvananthapuram -695043