



HITACHI

Inspire the Next

Single Phase IT & Infra UPS Systems

Range: 1 kVA to 3 kVA (1:1)



IP11 Series

IT & Infra UPS



Exceptional safeguard against Power Disruption

About IP11 Series IT & Infra UPS

IP11 Series UPS is a true on-line UPS with microprocessor controller that delivers continuous, high-quality AC power to connected equipment with no interruption when transferring to battery. It provides protection from blackouts, brownouts, sags, surges or noise interference and provides reliable and stable power.

This UPS is a full feature transformer free UPS designed to offer compact, efficient and reliable solutions to modern electronic gadgets. It features true double conversion on line back up power solution for small data centres, data networks, voice networks and process automation equipments.

IP11 Series UPS provides customers with a reliable source of uninterruptible power even in harsh power environment, including very wide input voltage / frequency window, better output voltage regulation, frequency regulation, internal bypass, and input power factor correction and low THDi.

It has built-in RS-232 and bundled monitoring software. This online UPS offers enhanced performance for power monitoring.

Advantages

- Easy to install and operate
- Compact footprint
- Robust and reliable connectivity
- LCD interface
- UPS can be configured with or without battery
- UPS can be configured to ECO mode
- Designed to operate in challenging electrical environment
- Low EMI emission compliant for commercial installation
- Large input voltage window

Features

- High frequency and double conversion on line technology
- Advanced PFC & IGBT technology
- Lighting and surge protection
- Fan speed auto control when loads varies
- Short circuit and overload protection
- Smart RS 232 communication with monitoring software
- EMI/RFI noise filter
- Cold start facility
- MTBF 300000 hrs
- Hot standby configuration
- High input power factor

Technology

Advanced PFC & IGBT technology

The Solution For

- Small range server and corporate network
- Routers, switches and hubs
- Personal workstation
- Security system
- Service sector, Wi-Fi application
- Infrastructure, small office network
- Health sector, medical equipments
- Banks and ATMs
- Sensitive electronics equipments
- Process automation equipments

Optional Features

- Extended battery pack
- SNMP card
- Internal isolation transformer
- Remote monitoring service through SNMP
- Modbus card
- AS-400
- 6A extra charger card

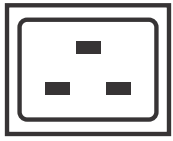
Configuration

- Standalone UPS
- Standalone with inbuilt isolation transformer
- In-built battery

Certification



Input / Output Connection

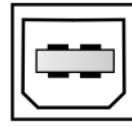


AC Input

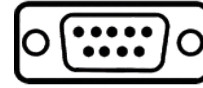


Output Receptacle

Communication Connection



USB Port

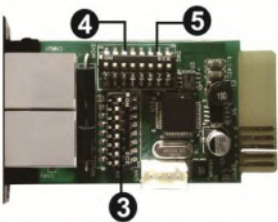
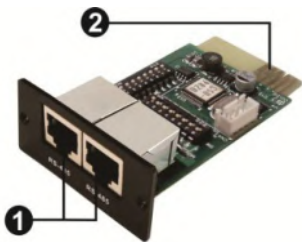


RS-232 Port



Intelligent Slot

MODbus

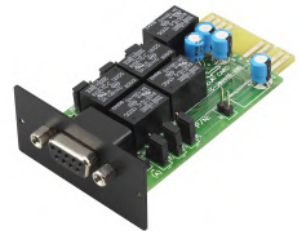


- 1 RS-485 port
- 2 Golden finger
- 3 Address switch
- 4 Communication setting

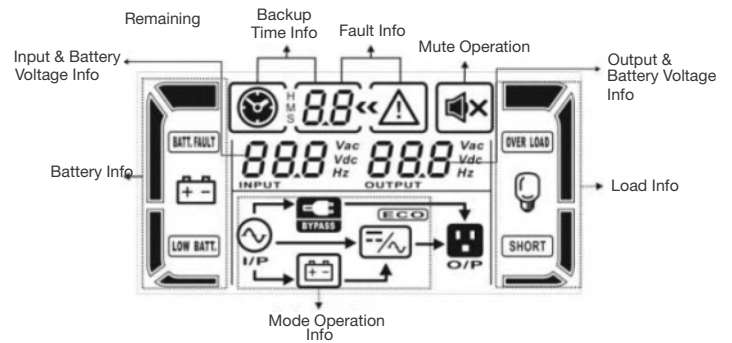
SNMP



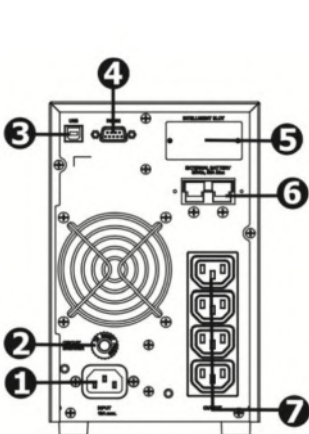
AS-400 Remote shutdown



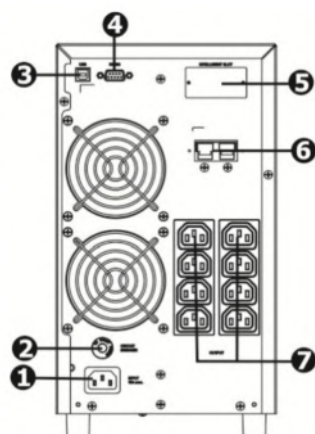
Control Panel



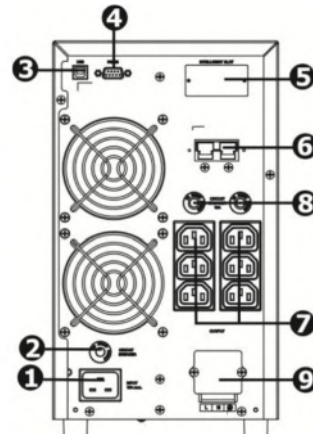
Connections



iP11-1 kVA



iP11-2 kVA



iP11-3 kVA

- 1 AC input
- 2 Input circuit breaker
- 3 USB communication port
- 4 RS-232 communication port
- 5 SNMP intelligent slot
- 6 External battery connection (only available for L model)
- 7 Output receptacles
- 8 Output circuit breaker
- 9 Output terminal

Technical Specifications

Model		IP11S-1/IP11H-1	IP11S-2/IP11H-2	IP11S-3/IP11H-3		
Phase		Single Phase with Ground				
Capacity		1000 VA / 800 W	2000 VA / 1600 W	3000 VA / 2400 W		
Input						
Nominal Voltage		100 / 110 / 115 / 120 / 127 VAC or 200 / 208 / 220 / 230 / 240 VAC				
Input Voltage Range		55 - 150 VAC or 110 - 300 VAC (Based on Load at 50%) 85 - 140 VAC or 160 - 280 VAC (Based on Load at 100%)				
Frequency Range		40 Hz ~ 70 Hz				
Power Factor		≥ 0.99 @ Nominal Voltage (100% Load)				
Output						
Output Voltage		100 / 110 / 115 / 120 / 127 VAC or 200 / 208 / 220 / 230 / 240 VAC				
Voltage Regulation		± 1%				
Frequency Range (Synchronized Range)		47~ 53 Hz or 57 ~ 63 Hz				
Frequency Range (Batt. Mode)		50 Hz ± 0.25 Hz or 60 Hz ± 0.3 Hz				
Overload		Ambient Temp <30°C 105% - 110% UPS Shut Down After 10 min. at Battery Mode or Transfer to Bypass When Utility is Normal 110% - 130% UPS Shut Down After 1 min. at Battery Mode or Transfer to Bypass When Utility is Normal >130% UPS Shut Down After 3 sec. at Battery Mode or Transfer to Bypass When Utility is Normal				
Current Crest Ratio		3:1				
Harmonic Distortion		≤ 3 % THD (Linear Load) ≤ 6 % THD (Non-Linear Load)				
Transfer Time	AC Mode to Battery Model Inverter to Bypass	Zero 4 ms (Typical)				
Waveform (Batt. Mode)		Pure Sinewave				
Efficiency						
AC Mode (Overall)		88%	88%	90%		
Battery Mode (Inverter)		83%	87%	88%		
Battery						
Standard Model	Battery Type	12 V / 7 AH				
	Numbers	3	8			
	Typical Recharge Time	4 Hours Recover to 90% Capacity				
	Charging Current (max.)	1A				
Long-run Model*	Charging Voltage	41.0 VDC ± 1%	109.4 VDC ±1%			
	Battery Type	Depending on the Capacity of External Batteries				
	Numbers	3	6	8	6	8
	Charging Current (max.)	1A / 2A / 4A / 6A (Adjustable)				
	Charging Voltage	41.0 VDC ± 1%	82.1 VDC ±1%	109.4 VDC ±1%	82.1 VDC ±1%	109.4 VDC ±1%
Indicators						
LCD	Load Level, Battery Level, AC Mode, Battery Mode, Bypass Mode and Fault Indicators					
Alarm						
Battery Mode	Sounding Every 4 Seconds					
Low Battery	Sounding Every Second					
Overload	Sounding Twice Every Second					
Fault	Continuously Sounding					
Physical						
Standard Model	Dimensions (WxDxH) (mm)	397 x 145 x 220	419 x 190 x 318			
	Net Weight (kgs)	13	26	30.5	28	33
Long-run Model**	Dimensions (WxDxH) (mm)	397 x 145 x 220				
	Net Weight (kgs)	7	13		13	
Environment						
Humidity	20 - 90 % RH @ 0 - 40°C (Non-Condensing)					
Noise Level	Less than 50dBA @ 1 meter					
Management						
Smart RS-232/USB	Supports Windows 2000 / 2003 / XP / Vista / 2008 / 7 / 8, Linux, Unix and MAC					
Optional SNMP	Power Management from SNMP Manager and Web Browser					

* 1 - 3 kVA: Derate to 80% of capacity in frequency converter mode and to 80% when the output voltage is adjusted to 100 / 200 / 208 VAC

** Long-run model is only available in 200 / 208 / 220 / 230 / 240 VAC systems (200 VAC system only available for 1-3 kVA)

* Product specifications are subject to change without further notice



Zonal Office: VASTECH INFOSYSTEMS, Mona Shopping Center,
Shop No. 28, Ground Floor, Dada Bhai Road, Andheri West:400058.

Phone No:-9321850282 Mail Id:- sales.support@vastech.net

Registered Office: VASTECH INFOSYSTEMS, Flat no:401,20-75/5,
Plot No:386, Sai Krupa Apartment, Street No:28

Goutham Nagar, Malkajgiri, Hyderabad – 500047.

Phone no:-9322817419 / 9321850282 Mail Id:- upcountry@vastech.net