

## Single Phase IT & Infra UPS Systems

Range: 6 kVA to 10 kVA (1:1)



**HS11 Series**  
IT & Infra UPS



Exceptional safeguard against Power Disruption

## About HS11 Series IT & Infra UPS

HS11 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.

Hs11 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
- Available in variable DC link in 6-10 kVA UPS for extend battery backup

## 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

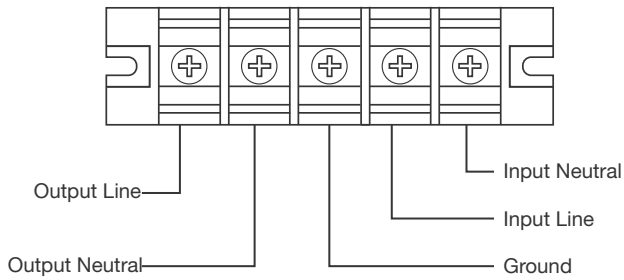
## Configuration

- Standalone UPS
- Standalone with inbuilt isolation transformer
- HSB mode with individual battery bank
- In-built battery

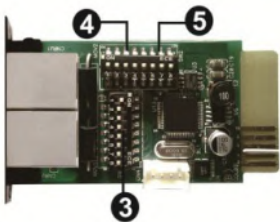
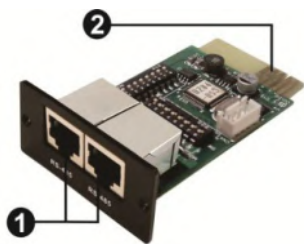
## Certification



## Input / Output Connection

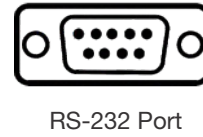


## MODbus



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

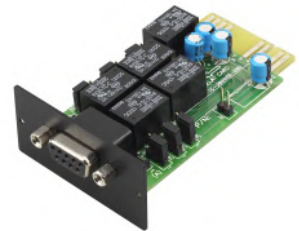
## Communication Connection



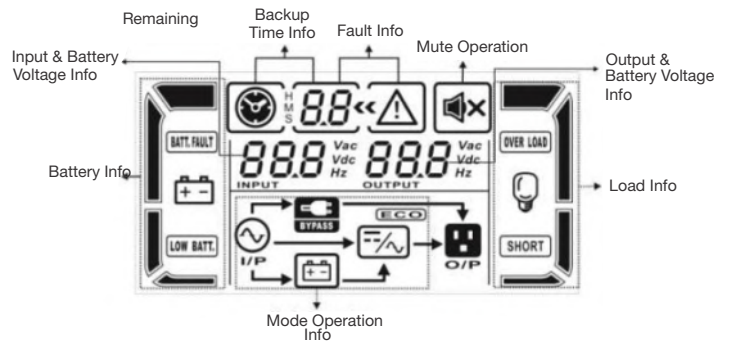
### SNMP



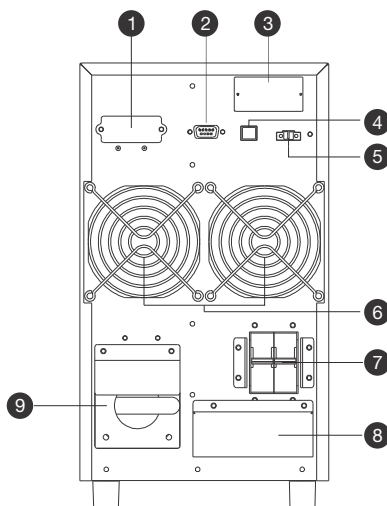
### AS-400 Remote shutdown



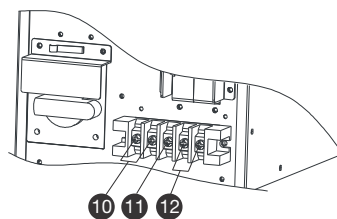
## Control Panel



## Connections



HS11- 6/10 kVA



- 1 External battery connector
- 2 RS-232 communication port
- 3 Intelligent slot
- 4 USB communication
- 5 Emergency power off function connector (EPO connector)
- 6 Cooling fan
- 7 Input circuit breaker
- 8 Input/Output terminal
- 9 Maintenance bypass switch
- 10 Output terminal
- 11 Grounding terminal
- 12 Utility input terminal

## Technical Specifications

Model		HS11S-6 / HS11H-6	HS11S-10 / HS11H-10
Phase		Single Phase with ground	
Capacity		6000 VA / 4800 W	10000 VA / 8000 W
Input			
Nominal Voltage		220 / 230 / 240 VAC	
Input Voltage Range		176 - 280 VAC (Based on Load at 100%)	
Frequency Range		46 Hz ~ 54 Hz @ 50 Hz System 56 Hz ~ 64 Hz @ 60 Hz System	
Power Factor		≥ 0.99 @ Nominal voltage (100% Load)	
<b>Output</b>			
Output Voltage		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		100% - 110% 10 min. 110% - 130% 1 min. >130% 1 sec	
Current Crest Ratio		3:1 Max	
Harmonic Distortion		≤ 3 % THD (linear load) ≤ 6 % THD (non-linear load)	
Transfer Time	AC Mode to Battery Model	0 ms.	
	Inverter to Bypass	0 ms.	
Waveform (Batt. Mode)		Pure sinewave	
<b>Efficiency</b>			
AC Mode (Overall)		88%	88%
Battery Mode (Inverter)		83%	87%
<b>Battery</b>			
Standard Model	Battery Type	12 V / 7 AH	
	Numbers	16	
	Typical Recharge Time	9 Hours recover to 90% capacity	
	Charging Current (max.)	1A ± 10%	
	Charging Voltage	218.4 VDC ± 1%	
Long-run Model*	Battery Type	Depending on the capacity of external batteries	
	Numbers	16 - 20	
	Charging Current (max.)	1A / 2A / 4A / 6A (adjustable)	
	Charging Voltage	218.4 - 272 VDC ±1%	
<b>Physical</b>			
Standard Model	Dimensions (WxDxH) (mm)	369 x 190 x 688	442 x 190 x 688
	Net Weight (kgs)	72	82
Long-run Model**	Dimensions (WxDxH) (mm)	369 x 190 x 318	442 x 190 x 318
	Net Weight (kgs)	21	23
<b>Environment</b>			
Operation Temp		0 - 40°C (Battery life cycle will be shorten when temperature is above 25°C)	
Operation Humidity		<95 and condensing	
Noise Level		Less than 55 dB @ 1 meter	Less than 58 dB @ 1 meter
<b>Management</b>			
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	

\* Derate to 80% of capacity in frequency converter mode and to 90% when the output voltage is adjusted to 208 VAC.

\*\* If the UPS is installed or used in place where the altitude is above than 1000m, the output power must be derated one percent per 100m.

\* Product specifications are subject to change without further notice.



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