

IP11 Series IT UPS

Single Phase Input - Single Phase Output

1 kVA to 3 kVA

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	
Waveform (Batt. Mode)			4 ms (typical) Pure sinewave	
EFFICIENCY				
AC Mode (Overall)		88%	88%	90%
Battery Mode (Inverter)		83%	87%	88%
BATTERY				
Standard Model	Battery Type Numbers Typical Recharge Time Charging Current (max.) Charging Voltage	3 41.0 VDC ± 1%	12 V / 7 AH 4 hours recover to 90% capacity 1A	6 82.1 VDC ± 1%
Long-run Model*	Battery Type Numbers Charging Current (max.) Charging Voltage	3 41.0 VDC ± 1%	Depending on the capacity of external batteries 6 1A / 2A / 4A / 6A (adjustable) 82.1 VDC ± 1%	8 6 8 82.1 VDC ± 1%
			109.4 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 (W x D x H) (mm) Net Weight (kgs)	397 x 145 x 220 13	26 30.5	419 x 190 x 318 28 33
Long-run Model**	Dimensions (W x D x H) (mm) Net Weight (kgs)	397 x 145 x 220 7	13	419 x 190 x 318 13
ENVIRONMENT				
Humidity			20 - 90 % RH @ 0 - 40°C (non-condensing)	
Noise Level			Less than 50dBA @ 1 meter	
MANAGEMENT				
Smart RS-232/USB Optional SNMP			Supports Windows 2000 / 2003 / XP / Vista / 2008 / 7 / 8, Linux, Unix and MAC 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