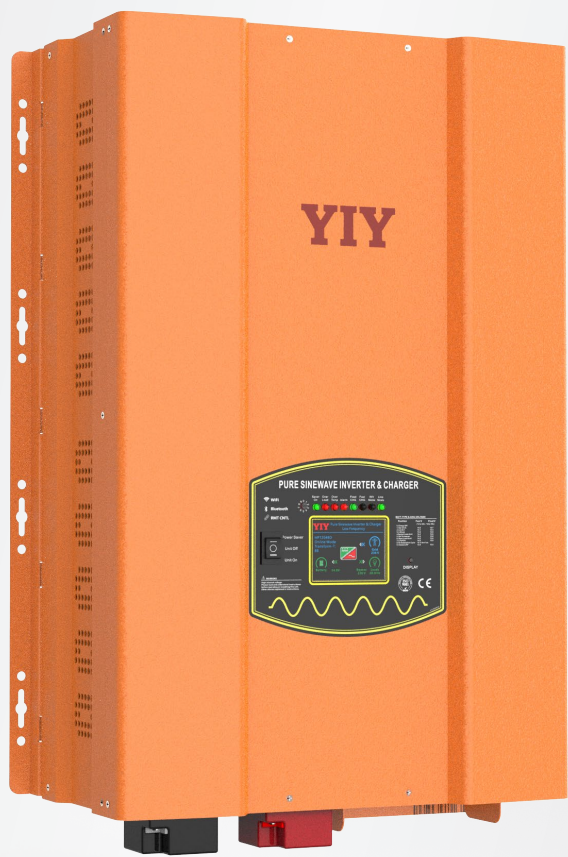


HP/HPV

Low Frequency Pure Sine Wave Inverter/Charger



• Features

- High Output Capacity up to 20 KW, single phase.
- Ultra Low THD, Typically 7% Under Full Linear Load (battery low).
- Battery Temperature Sensing For Increased Charging Precision.
- Charging current up to 140Amp, 0%-100% adjustable.
- Auto Gen Start Function.
- MPPT Solar Charger Controller Available.
- BTS Seletable.
- GFCI Seletable.

• Applications



Off-grid



PV generation



Back-up power

• Technical Parameter
HP Pure Sine Wave Inverter/Charger

	Model	1.0KW	1.5KW	2.0KW	3.0KW	4.0KW	5.0KW	6.0KW	8.0KW	10.0KW	12.0KW	15.0KW	18.0KW	20.0KW
Inverter Output	Continuous Output Power	1.0KW	1.5KW	2.0KW	3.0KW	4.0KW	5.0KW	6.0KW	8.0KW	10.0KW	12.0KW	15.0KW	18.0KW	20.0KW
	Surge Rating (20Secs)	3.0KW	4.5KW	6.0KW	9.0KW	12.0KW	15.0KW	18.0KW	24.0KW	30.0KW	36.0KW	45.0KW	54.0KW	60.0KW
	Output Waveform	Pure Sine wave/Same as input (Bypass Mode)												
	Nominal Efficiency	>88% (Peak)												
	Line Mode Efficiency	>95%												
	Power Factor	0.9-1.0												
	Nominal Output Voltage rms	100-110-120Vac/ 220-230-240Vac												
	Output Voltage Regulation	±10%RMS												
	Output Frequency	50Hz± 0.3Hz/60Hz± 0.3Hz												
	Short Circuit Protection	Yes(1 sec after fault)												
	Typical transfer Time	10ms (Max)												
	THD	< 3% (Rated battery level, rated full linear load)												
DC Input	Nominal Input Voltage	12.0Vdc/24.0Vdc		12.0Vdc/24.0Vdc/48.0Vdc				24.0Vdc/48.0Vdc		24.0Vdc/48.0Vdc/96.0Vdc		48.0Vdc/96.0Vdc		
	Minimum Start Voltage	10.0Vdc/ 10.5Vdc for 12Vdc Mode												
	Low Battery Alarm	10.5Vdc/ 11.0Vdc for 12Vdc Mode												
	Low Battery Trip	10.0Vdc/ 10.5Vdcfor 12VdcMode												
	High Voltage Alarm	16.0Vdcfor12Vdc Mode												
	Low Battery Voltage Recover	15.5Vdc for 12Vdc Mode												
	Idle Consumption-Search Mode	< 25W When Power Saver On. (Refer to Table)												
Charger	Output Voltage	Depends on battery type (Refer to Table 2.5.2)												
	Charger Breaker Rating	20A	20A	20A	25A	32A	40A	40A	50A	80A	80A	100A		
	Max Charge Power Rate	1/3 Rating Power (Refer to Table 2.5.3)												
	Battery Initial Voltage for start	10-15.7Vdcfor12Vdc Mode												
	Over Charge Protection S.D.	15.7Vdcfor12Vdc Mode												
	Selector	Switch Setting	Description					Fast Mode / VDC		Float Mode/VDC				
	0	Charger Off												
	1	Gel USA					14.0		13.7					
	2	AGM 1					14.1		13.4					
	3	Lithium					13.8		13.6					
	4	Sealed Lead Acid					14.4		13.6					
	5	Gel EURO					14.4		13.8					
	6	Open Lead Acid					14.8		13.8					
	7	LifePO4					14.0		13.8					
	8	De-sulphation							15.5 (4 Hours then Off)					
	9	Classic LFP					13.6		13.5					
	For 12Vdc Mode Series("2 for 24Vdc Mode/4 for 48Vdc Mode/8 for 96Vdc Mode)													
BTS	Battery Temperature Sensor (Optional)	Yes (Refer to the table) Variances in Charging Voltage & S.D Voltage Base on the Battery Temperature.												

HP Pure Sine Wave Inverter/Charger

BTS	Battery Temperature Sensor (Optional)	Yes (Refer to the table) Variances in Charging Voltage & S.D Voltage Base on the Battery Temperature.												
Bypass & Protection	Input Voltage Waveform	Sine vave (Grid or Generator)												
	Nominal Voltage	100-110-120Vac/ 220-230-240Vac												
	Max Input AC Voltage	150Vac For 120Vac LV Mode; 300Vac For 230Vac HV Mode:												
	Nominal Input Frequency	50Hzor60Hz												
	Low Freq Trip	47±0.3Hzfor 50Hz 57±0.3Hzfor 60Hz												
	High Freq Trip	55±0.3Hz for 50Hz. 65±0.3Hz for 60Hz												
	Over load protection (SMPS load)	Circuit Breaker												
	Output Short Circuit Protection	Circuit Breaker												
	By pass Breaker Rating	20A	20A	20A	25A	32A	40A	40A	50A	80A	80A	100A		
	Transfer SWitch Rating	30Amp for UL&TUV				40Amp for UL			80Amp for UL			100Amp for UL		
	Bypass Without Battery Connected	Yes (Optional)												
	Max Bypass Current	30Amp				40Amp			80Amp			100Amp		
Mechanical Specifications	Mounting	Wall Mount												
	Inverter Dimensions (L*WH)	388*415*200mm				488*415*200mm			588*415*200mm			706*415*213mm		
	Inverter Weight (Solar Chg) KG	21+2.5	22+2.5	23+2.5	27+2.5	38+2.5	48+2.5	49+2.5	60+2.5	66+2.5	70+2.5	85+2.5	95+2.5	100+2.5
	Shipping Dimensions(LWH)	550*520*310mm				650*520*310mm			750*520*310mm			850*520*350mm		
	Shipping Weight (Solar Chg) KG	23+2.5	24+2.5	25+2.5	29+2.5	40+2.5	50+2.5	51+2.5	62+2.5	68+2.5	72+2.5	87+2.5	97+2.5	102+2.5
	Display	Status LEDs / Status LEDs+LCD												
	Standard Warranty	1 Year												

***Details of the built-in MPPT solar controller parameters on page 28.**