

HP-W

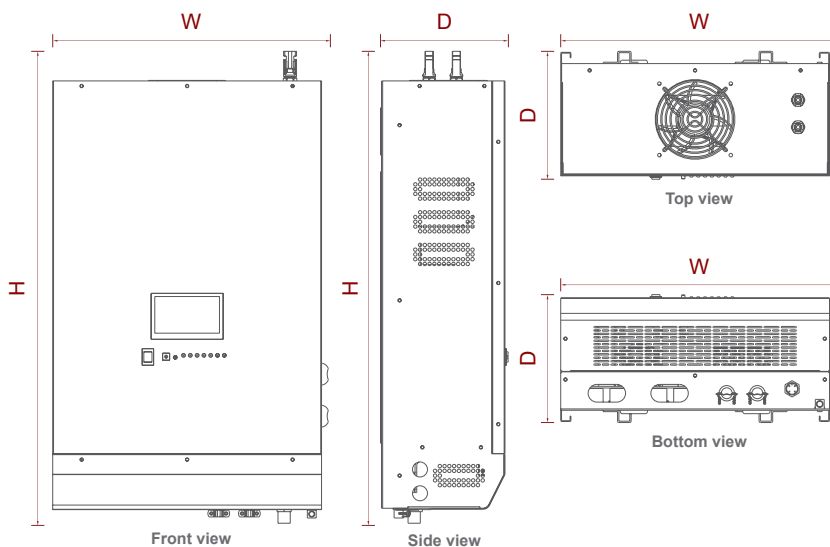
Low Frequency Pure Sine Wave Inverter/Charger



• Features

- Built-in EMS, achieves high efficient utilization of power energy between the grid and battery.
- High output capacity up to 20 kw.
- IP20 protection.
- Ultra low THD, typically 7% under full linear load (battery low).
- Battery temperature sensing for increased charging precision.
- Powerful charge rate up to 140amp, selectable from 0%-100%.
- Auto gen start function for off grid system with generator as backup power.
- PF1.0, high efficiency, lower consumption.

• Product Dimensions



Model	Size(W*D*H)
HP-W 1-3KW	345*192*515mm
HP-W 4-6KW	390*192*567mm
HP-W 8-12KW	400*192*675mm
HP-W 15-20KW	415*213*706mm



• Technical Parameter

HP-W Pure Sine Wave Inverter/Charger														
Inverter Output	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
	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 vave/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						*2 for 24Vdc / *4 for 48Vdc / *8 for 96Vdc						
	Low Battery Alarm	10.5Vdc / 11.0Vdc for 12Vdc Mode												
	Low Batteiy Trip	10.0Vdc / 10.5Vdc for 12Vdc Mode												
	High Voltage Alarm	16.0Vdc for 12Vdc 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 Pover (Refer to Table 2.5.3)												
	Battery Initial Voltage for start	10-15.7Vdc for 12Vdc Mode						*2 for 24Vdc / 4 for 48Vdc / 8 for 96Vdc						
	Over Charge Protection S.D.	15.7Vdc for 12Vdc 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												



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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	50Hz or 60Hz												
	Low Freq Trip	47±0.3Hz for 50Hz,57±0.3Hz for 60Hz												
	High Freq Trip	55±0.3Hz for 50Hz,65±0.3Hz for 60Hz												
	Ov ertoad 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				40 Amp			80Amp			100 Amp		
Mechanical Specifications	Mounting	Wall Mount												
	Inverter Dimensions (W*D*H)	345*192*515mm				390*192*567mm			400*192*675mm			415*213*706mm		
	Inverter Weight KG	21	22	23	27	38	48	49	60	66	70	85	95	100
	Shipping Dimensions(W*D*H)	520*310*550mm				520*310*650mm			520*310*750mm			520*350*850mm		
	Shipping Weight KG	23	24	25	29	40	50	51	62	68	72	87	97	102
	Display	Status LEDs / Status LEDs+LCD												
	Standard Warranty	1 Year												