

Hybrid Inverter

Single Phase: HP1-7K5/8K/10K/12K S2 **Upcoming**

Livolttek's single-phase 7.5~12kW energy storage inverter, with its superior performance and comprehensive power coverage, provides strong support for your home energy management. This model supports battery charging and discharging currents up to 250 amperes, ensuring quick charging and a robust backup power supply. Equipped with an intuitive color touch LCD screen, users can easily access basic function settings for one-touch quick operations, making management more convenient. Moreover, the device has extremely high flexibility and expandability, supporting not only multi-unit parallel operation but also compatible expansion with multiple battery systems. It can even be used in conjunction with diesel generators to meet a variety of application needs and adapt to various complex energy management scenarios. Choose Livolttek for an intelligent and efficient home energy solution.

Features

- Color touch LCD screen for easier operation
- Max. charging/discharging current of 250A
- 6 adjustable time periods for battery charging /discharging
- Max. 6 pcs parallel for on-grid and off-grid operation
- Support storing energy from diesel generator
- AC couple to retrofit existing solar system
- Support 182&210 photovoltaic modules, MPPT current to 32A



Technical Specification

Model	HP1-7K5S2	HP1-8KS2	HP1-10KS2	HP1-12KS2
PV Input				
Max. PV Input Power	11250Wp	12000Wp	15000Wp	18000Wp
Max. PV Input Voltage	500V			
Min. PV Input Voltage	90V			
MPPT Voltage Range	90 - 500V			
Startup Voltage	100V			
No. of MPPTs/Strings per MPPT	2 / (2+2)		3 / (2+2+2)	
Max. PV Current	32 / 32 A		32 / 32 / 32 A	
Max. Short Circuit Current	40 / 40 A		40 / 40 / 40 A	
AC Output @ Grid				
Nominal AC Output Power	7500 W	8000 W	10000 W	12000 W
Max. AC Input Power	14400 VA	14400 VA	14400 VA	14400 VA
Nominal AC Voltage	L/N/PE, 220/230/240			
AC Frequency	50 / 60 Hz			
AC Frequency Range	45 - 55 Hz / 55-65 Hz			
Max. Output Current	40.0 A	40.0 A	50.0 A	60.0 A
Nominal Output Current	34.1 A	36.4A	45.5A	54.6A
THDi, Rated Power[%]	< 3%			
Power Factor	> 0.99 at Rated Power (Adjustable 0.8 Leading - 0.8Lagging)			
EPS Output @ Off Grid				
Nominal EPS Power	7500 W	8000 W	10000 W	12000 W
EPS Peak Power (10s)	2 times of rated power, 10s			12000 W
Nominal Output Voltage	L/N/PE, 220/230			
Nominal Frequency	50 / 60 Hz			
Nominal Output Current	34.1 A	36.4 A	45.5 A	
THDv, Rated Power[%]	< 3%			54.5
On/Off-grid Switchover Time	< 10 ms			
Generator				
Max. Input Power	7500 W	8000 W	10000 W	12000 W
Max. Input Current	34.1 A	36.4 A	45.4 A	54.5 A
Rated Input Frequency	50 / 60 Hz			
Efficiency				
Max. Efficiency	97.6 %			
Euro Efficiency	96.8 %			
Battery				
Battery Type	Li-ion / Lead-acid			
Battery Voltage	40V - 60V			
Max. Charge/Discharge Current	190A	190A	220A	250A
Communication with BMS	CAN / RS485			
General Data				
Dimension (W*H*D)	496*560*220 mm			
Weight	34 kg			
Cooling	Forced Air Cooling			
Protection Rating	IP65			
Mounting Method	Wall Mounting			
Operating Temperature Range	-25°C to +60°C (derating at 45°C)			
Display	LCD + APP			
Operating Attitude	< 2000 m			
Operating Humidity	0 - 95 %			