LIVOLTEK

HYBRID INVERTER

HP1-7K5/8K S2M, HP1-10K/12K/14K/16KS2

Livoltek's 7.5~16kW single-phase energy storage inverter offers robust home energy management with up to 250A charging/discharging currents for fast charging and reliable backup. Its user-friendly color touch LCD screen simplifies operations, while its flexibility allows for multi-unit parallel operation and compatibility with various battery systems. It can also integrate with diesel generators for diverse energy needs. Option for Livoltek for a smart and efficient home energy solution.

High Generation & Scalability

- Max charging and discharging current of up to 290A.
  Up to 200% DC input oversizing and PV current to 32A, support
- 182&210 photovoltaic modules
  Max 10 pcs parallel for on-grid and off-grid operation.

Safe & Protection

- Seamless Transition: Backup with UPS-level switching < 10ms
  10 seconds of 200% overload capability.
- IP66 ingress protection

Adaptable Applications

- AC couple to retrofits existing solar systems.
- Supports storing energy from diesel generators.

Friendly & Thoughtful Design

- Color touch LCD screen combined with auxiliary function buttons.
- 6 adjustable time slots for charging and discharging the battery.

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INVERTER

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Model	HP1-7K5S2M	HP1-8KS2M	HP1-10KS2	HP1-12KS2	HP1-14KS2	HP1-16KS2
PV Input						
Max. PV Input Power	15000Wp	16000Wp	20000Wp	24000Wp	28000Wp	32000Wp
Max. PV Input Voltage	500V					
Min. PV Input Voltage	60V					
MPPT Voltage Range	60-500					
Startup Voltage	70V					
No. of MPPTs/Strings per MPPT	2 / 2		3 /2			
Max. PV Input Current	32 / 32		32 / 32 / 32			
Max. Short Circuit Current	40 / 40		40 / 40 / 40			
AC Input/Output @Grid						
Max. AC Input Power	13800W				20700W	
Max. AC Input Current	60A				90A	
Nominal AC Output Power	7500W	8000W	10000W	120000W	14000W	16000W
Max. AC Output Power	7500W	8800W	11000W	132000W	15400W	17600W
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	34.1 A	40.0 A	50.0 A	60.0 A	70.0 A	80.0 A
Nominal Output Current	34.1 A	36.4 A	45.5 A	54.6 A	63.6 A	72.7 A
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	120000W	14000W	16000W
EPS Peak Power (10s)	2 times of rated power, 10s					
Nominal Output Voltage	L/N/PE, 220/230/240					
Nominal Frequency	50 / 60 Hz					
Nominal Output Current	34.1 A	36.4 A	45.5 A	54.6 A	63.6 A	72.7 A
THDv, Rated Power[%]	< 3%					
On/Off-grid Switchover Time	< 10 ms					
Inverter Data						
Dimension (W*H*D)	496*505*225					
Weight	34 kg					
Mounting Method	Forced Air Cooling					
Protection Rating	IP66					
Cooling	Wall Mounting					
Operating Temperature Range	−25°C to +60°C (derating at 45°C)					
Display	LCD + APP					
Nosie	< 45 dB				< 55 dB	
Operating Attitude	< 2000 m					
Operating Humidity	0 - 95 %					
Generator						
Max. Input Power	7500 W	8000 W	10000 W	120000W	14000W	16000W
Max. Input Current	34.1 A	36.4 A	45.5 A	54.6 A	63.6 A	72.7 A
Rated Input Frequency	50 / 60 Hz					
Efficiency						
Max. Efficiency	97.60%					
Euro Efficiency	96.80%					
Battery						
Battery Type	Li-ion / Lead-acid					
Battery Voltage	40V - 60V					
Max. Charge/Discharge Current	190A	190A	220A	250A	290A	290A
Communication with BMS	CAN / RS485					