

HYBRID INVERTER

HP1-7K5/8KS2M, HP1-10K/12KS2

Livolttek's 7.5-12kW 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 Livolttek for a smart and efficient home energy solution.

High Generation & Scalability

- Max charging and discharging current of up to 250A
- Up to 200% DC input oversizing and PV current to 32A, support 182&210 photovoltaic modules

Safe & Protection

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

Adaptable Applications

- Max 6 pcs parallel for on-grid and off-grid operation
- 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

Model	HP1-7K5S2M	HP1-8KS2M	HP1-10KS2	HP1-12KS2
PV Input				
Max. PV Input Power	15000Wp	16000Wp	20000Wp	24000Wp
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		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. Input Apparent Power	14400 VA			
Max. AC Input Current	60A			
Nominal Output/Apparent Power	7500W	8000W	10000W	12000W
Max. Output Apparent Power	7500W	8800W	11000W	13200W
Nominal Grid Voltage	L/N/PE, 220/230/240			
Nominal Grid Frequency	50 / 60 Hz			
Nominal Grid Frequency Range	45 - 55 Hz / 55-65 Hz			
Max. Output Current	34.1 A	40.0 A	50.0 A	60.0 A
Nominal Output Current	34.1 A	36.4 A	45.5 A	54.6 A
Total Harmonic Distortion Rate	<3%			
Power Factor	> 0.99 at Rated Power (Adjustable 0.8 Leading - 0.8Lagging)			
AC Output @ Off Grid				
Nominal Output Apparent Power	7500 W	8000 W	10000 W	12000W
Peak output/apparent Power	2 times of rated power, 10s			
Nominal Output Voltage	L/N/PE, 220/230/240			
Nominal Output Frequency	50 / 60 Hz			
Nominal Output Current	34.1 A	36.4 A	45.5 A	54.5 A
Total Harmonic Distortion Rate	< 3%			
On/Off-grid Switchover Time	< 10 ms			
Generator				
Max. Input Power	7500 W	8000 W	10000 W	12000W
Max. Input Current	34.1 A	36.4 A	45.5 A	54.6 A
Rated Input Frequency	50 / 60 Hz			
Efficiency				
Max. Efficiency	97.60%			
Euro Efficiency	96.80%			
Battery				
Battery Type	Li-ion			
Battery Voltage	40V - 60V			
Max. Charge/Discharge Current	190A	190A	220A	250A
Communication with BMS	CAN / RS485			
Inverter Data				
Dimension (W*H*D)	496*505*225 mm			
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			
Operating Attitude	< 2000 m			
Operating Humidity	0 - 95 %			
Standard	EN 62109-1/2, EN 62920:2017+A11+A1, EN IEC 61000-6-1/2/3/4, IEC61727, IEC62116, EN 50549-1/10, IEC 61683, NRS 097-2-1:2024, IEC 63027			