



Hybrid Inverter

HP1-7.5K/8KS2M, HP1-10K/12KS2
HP1-5KL2

Livoltek's 7.5-12kW single-phase energy storage inverter offers robust home energy management with 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 250A
- Up to 200% DC input oversizing and PV current to 32A, support 182&210 photovoltaic modules

Safe & Protection

- 10 seconds of 200% overload capability
- IP66 ingress protection

Adaptable Applications

- Seamless Transition: Backup with UPS-level switching <10ms
- 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.

Hybrid Inverter

Single Phase: HP1-7.5K/8KS2M, HP1-10K/12KS2

INVERTER

Model	HPI-7K5S2M		HPI-8KS2M		HPI-10KS2		HPI-12KS2	
PV Input								
Max. PV Input Power	15000 Wp		16000 Wp		20000 Wp		24000 Wp	
Max. PV Input Voltage					500 V			
Min. PV Input Voltage					90 V			
MPPT Voltage Range					90-500V			
Startup Voltage					100 V			
No. of MPPTs/Strings per MPPT	2/2						2/2	
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					60 A			
Nominal Output/Apparent Power	7500 W		8000 W		10000 W		12000 W	
Max. Output Apparent Power	7500 W		8800 W		11000 W		13200 W	
Nominal Grid Voltage					L/N/PE, 220/230/240V			
Nominal Grid Frequency					50/60 Hz			
Nominal Grid Frequency Range					45-55Hz/55-65Hz			
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-0.8 Lagging)			
AC Output @ Off Grid								
Nominal Output Apparent Power	7500 W		8000 W		10000 W		12000 W	
Peak Output/Apparent Power					2 times of rated power, 10s			
Nominal Output Voltage					L/N/PE, 220/230/240V			
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		12000 W	
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					40-60V			
Max. Charge/Discharge Current	190 A		190 A		220 A		250 A	
Communication with BMS					CAN/RS485			
Inverter Data								
Dimensions (W × H × D)					496 × 505 × 225 mm			
Weight					34 kg			
Mounting Method					Wall Mounting			
Protection Rating					IP66			
Cooling					Forced Air Cooling			
Operating Temperature Range					-25°C to +60°C (derating at 45°C)			
Display					LCD + APP			
Noise					<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, IEC 61727, IEC 62116, EN 50549-1/10, IEC 61683, NRS 097-2-1: 2024, IEC 63027			

HYBRID INVERTER

HP1-5KL2

INVERTER

Model	HP1-5KL2
PV Input	
Max. PV Input Power	10000 Wp
Max. PV Input Voltage	500 V
Min. PV Input Voltage	60 V
MPPT Voltage Range	60-500V
Startup Voltage	70 V
No. of MPPTs/Strings per MPPT	2/2
Max. PV Input Current	32/32 A
Max. Short Circuit Current	40/40 A
AC Output @ Grid	
Nominal AC Output Power	5000 W
Max. AC Input Power	5500 W
Max. AC Input Current	60 A
Nominal Grid Voltage	L/N/PE, 110/120/127V
Nominal Grid Frequency	50/60 Hz
Nominal Grid Frequency Range	45-55Hz/55-65Hz
Max. Output Current	50.0 A
Nominal Output Current	45.5 A
Total Harmonic Distortion Rate	<3%
Power Factor	>0.99 at Rated Power (Adjustable 0.8 Leading-0.8 Lagging)
AC Output @ Off Grid	
Nominal Output Apparent Power	5000 W
Peak Output/Apparent Power	2 times of rated power, 10s
Nominal Output Voltage	L/N/PE, 110/120/127V
Nominal Output Frequency	50/60 Hz
Nominal Output Current	45.5 A
Total Harmonic Distortion Rate	<3%
On/Off-grid Switchover Time	<10 ms
Battery	
Battery Type	Li-ion
Battery Voltage	40-60V
Max. Charge/Discharge Current	125 A
Communication with BMS	CAN/RS485
Efficiency	
Max. Efficiency	97.60%
Euro Efficiency	96.80%
Generator	
Max. Input Power	5000 W
Max. Input Current	45.5 A
Rated Input Frequency	50/60 Hz
Inverter Data	
Dimensions (W × H × D)	496 × 505 × 225 mm
Weight	34 kg
Mounting Method	Wall Mounting
Protection Rating	IP66
Cooling	Forced Air Cooling
Operating Temperature Range	-25°C to +60°C (derating at 45°C)
Display	LCD + APP
Noise	<45 dB
Operating Attitude	<2000 m
Operating Humidity	0-95%

*[1]: During grid-to-battery charging, the inverter's output power is adaptively derated for system stability.