# 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.

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#### ⑤ 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 pnotovoltaic modules
   Max 10 pcs parallel for on-grid and off-grid opera

#### **⊘** Safe & Protection

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

#### **B**Adaptable Applications

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

#### (II) Friendly & Thoughtful Design

- Color touch ICD screen combined with auxiliary function but
- 6 adjustable time slots for charging and discharging the battery



INVERTER

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

Max. PV Input Power   15000kp   15000kp   24000kp   28000kp   24000kp   28000kp   22000kp   20000kp   20	Model	HP1-7К5S2M	HP1-8KS2M	HP1-10KS2	HP1-12KS2	HP1-14KS2	HP1-16KS2	
Mar. NY Input Voltage	PV Input							
Mile PV Input Voltage	Max. PV Input Power	15000Wp	16000Wp	20000Wp	24000Wp	28000Wp	32000Wp	
### Voltage Range ### Co-500   Total Voltage ###	Max. PV Input Voltage			50	0V			
Control Prototogy   100   10	Min. PV Input Voltage	60V						
No. or MPTH Storings per MPT	MPPT Voltage Range	60-500						
No. or MPTH Storings per MPT	-							
Mail Short Circuit Current	No. of MPPTs/Strings per MPPT	2/2 3/2						
Mail Short Circuit Current	Max. PV Input Current	32 /	32					
March Application   13800W   13800W   20700W   15000W   150000W   15000W   150000W   15000W   150000W   150000W   15000W   15000W   15000W   150000W   15000W   15000W   150	Max. Short Circuit Current							
Max. AC Input Power     13800W	AC Input/Output @Grid	· ·			·	,		
Max. AC Injust Current		13800W 20700W						
Note								
Max. AC Output Power   7500W   8800W   1000W   13000W   15400W   17800W   18800W		7500W			120000W			
Common   According   Common								
C Frequency Ronge		730000	00000			1340000	1700000	
AC Frequency Ronge	-							
Max Output Current	. ,							
Securion   Courput Current   Sali A		041.4	40.0			70.0	000.	
State   Stat								
Separation   Sep		34.1 A	36.4 A			63.6 A	72.7 A	
### Subput @ Off Grid  ### Speak PR Power  ### 7500 W   8000 W   10000 W   1200000W   14000W   16000W  ### Peak Power (10s)  ### 1000 W   1200000W   1200000W   140000W   16000W  ### 10000 W   10000 W   100000W   16000W  ### 10000 W   160000W   160000W   16000W  ### 10000 W   160000W   160000W   16000W   16000W   16000W  ### 10000 W   16000W   16000W								
Nominal EPS Power   7500 W   8000 W   10000 W   120000W   14000W   16000W			> 0.99 a	t Rated Power (Adjusto	able 0.8 Leading - 0.8L	agging)		
2 times of rated power, I0s   2 times of rated power, I0s   I/N/PE, 220/230/240   Sominal Output Voltage   I/N/PE, 220/230/240   Sominal Cutput Voltage   I/N/PE, 220/230/240   Sominal Cutput Current   341 A   364 A   455 A   546 A   636 A   72.7 A   72.7 A   72.7 A   72.7 A   73.5 A   73.	• •							
		7500 W	8000 W	10000 W	120000W	14000W	16000W	
Sometimal Frequency   So   60 Hz	EPS Peak Power (10s)							
Seminal Output Current   341 A   38.4 A   45.5 A   54.6 A   63.6 A   72.7 A	Nominal Output Voltage							
HDV, Rated Power   1/2	Nominal Frequency			50 / 6	60 Hz			
Control   Con	Nominal Output Current	34.1 A	36.4 A	45.5 A	54.6 A	63.6 A	72.7 A	
### Page 1975   Pa	THDv, Rated Power[%]	< 3%						
Seminarian (W*H*D)	On/Off-grid Switchover Time			< 10	ms			
Weight	nverter Data							
Mounting Method Forced Air Cooling Protection Rating   IP66   Cooling   Wall Mounting   Cooling   Wall Mounting   Cooling   Co	Dimension (W*H*D)	496*505*225						
Protection Rating   IP66   Cooling   Wall Mounting   Cooling   Cooling   Wall Mounting   Cooling   Cooling	Weight	34 kg						
Wall Mounting   Coperating Temperature Range   -25°C to +60°C (derating at 45°C)	Mounting Method	Forced Air Cooling						
Comparating Temperature Range	Protection Rating	IP66						
LCD + APP	Cooling	Wall Mounting						
Nosie	Operating Temperature Range	-25°C to +60°C (derating at 45°C)						
Coperating Attitude	Display	LCD + APP						
Comparating Humidity	Nosie		< 4	5 dB		< 55	i dB	
Separator   Sepa	Operating Attitude	< 2000 m						
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  Max. Efficiency 97.60%  Surro Efficiency 96.80%  Battery  Battery  Battery Type Li-ion / Lead-acid  Battery Voltage 40V - 60V  Max. Charge/Discharge Current 190A 190A 220A 250A 290A 290A	Operating Humidity			0 - 6	95 %			
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	Generator							
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	Max. Input Power	7500 W	8000 W	10000 W	120000W	14000W	16000W	
Rated Input Frequency 50 / 60 Hz  Efficiency  Max. Efficiency 97.60%  Euro Efficiency 96.80%  Sattery  Battery Type Li-ion / Lead-acid  Battery Voltage 40V - 60V  Max. Charge/Discharge Current 190A 190A 220A 250A 290A 290A		34.1 A	36.4 A	45.5 A	54.6 A	63.6 A	72.7 A	
### State of Contract of Contr			50 / 60 Hz					
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								
### Part				97.6	30%			
Battery Type Li-ion / Lead-acid Battery Voltage 40V - 60V Max. Charge/Discharge Current 190A 190A 220A 250A 290A 290A								
Battery Type Li-ion / Lead-acid  Battery Voltage 40V - 60V  Max. Charge/Discharge Current 190A 190A 220A 250A 290A 290A				30.0				
Battery Voltage 40V - 60V  Max. Charge/Discharge Current 190A 190A 220A 250A 290A 290A				li-ion / Le	ead-acid			
Max. Charge/Discharge Current 190A 190A 220A 250A 290A 290A								
		1904	1904			2904	2004	
	Communication with BMS	HUGI	CAN / RS485					