

HYBRID ALL-IN-ONE ESS

iPower HES-3000/3680/4600/5000/6000

The LIVOLTEK iPower HES Series is a premium all-in-one solar and storage solution that integrates a hybrid inverter with low-voltage batteries. This integration helps you reduce electricity bills and maximize energy independence from the grid. Key benefits include improved energy capture from PV modules, a space-saving compact design, and a sleek appearance that enhances your home's aesthetics. Additionally, the plug-and-play functionality and free online monitoring enable faster installation, quick site mapping to the monitoring platform, and easier maintenance with minimal effort.

Product Benefits

- ⊕ Flexible and easy to expand
- ⊕ Natural cooling, extremely quiet
- ⊕ 150% oversized
- ⊕ Smart and easy operation
- ⊕ Intelligent charging and active balance
- ⊕ Fanless design, quiet and long lifespan



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ALL-IN-ONE

Model	Hyper-3000	Hyper-3680	Hyper-4600	Hyper-5000	Hyper-6000
PV Input					
Max. PV Input Power	4500Wp	5520Wp	6900Wp	7500Wp	7500Wp
Max. PV Input Voltage	600 V				
MPPT Voltage Range	125V - 550V				
Max. PV Current	14A	14A / 14A	14A / 14A	14A / 14A	14A / 14A
Max. Short Circuit Current	17.5A	17.5A / 17.5A	17.5A / 17.5A	17.5A / 17.5A	17.5A / 17.5A
No. of MPPTs/Strings per MPPT	1 / 1	2 / 1	2 / 1	2 / 1	2 / 1
AC Output @ Grid					
AC Input Voltage Range/Frequency	186Vac - 290Vac / 50Hz or 60Hz				
Nominal AC Power	3000W	3680W	4600W	5000W	6000W
Nominal AC Current	13.0A	16.0A	20.0A	21.7A	26.1A
THDi @Rated Power[%]	< 3%				
AC Output @ Off Grid					
EPS Output Voltage/Frequency	220Vac / 50Hz or 60Hz				
Continuous Output Power (@25°C)	3kVA	3.68kVA	4.6kVA	5kVA	6kVA
EPS Output Current	13.0A	16.0A	20.0A	21.7A	26.1A
Peak Power	1.1 x Pnom, 60 Sec; 1.5 x Pnom, 100ms				
Power Factor	-1 (Adjustable from 0.8 Leading to 0.8 Lagging)				
Waveform	Pure Sinusoidal Wave				
THDv @Linear Power[%]	< 3%				
On/Off-grid Switchover Time	< 10 ms				
Battery Input					
Battery Type	Lithium Battery				
Battery Voltage	40V - 60V				
Galvanic Isolation for Battery	Yes				
Max. Charge Current of Inverter	60A	80A	100A	100A	125A
Max. Discharge Current of Inverter	60A	80A	80A	100A	125A
BMS Communication	CAN				
Protection	Over Voltage, Under Voltage, Over Current, Short Circuit, Over Temperature				
Protection					
Max. Efficiency	97.60%		97.80%		
Euro Efficiency	97.10%		97.40%		
Battery Model					
			BLF51-5		
Cell Type	LFP				
Nominal Energy	5kWh				
Max. Depth of Discharge	90%				
Nominal Voltage	51.2V				
Operating Voltage Range	40V - 58.4V				
Nominal Capacity	100Ah				
Max. Charge Current	50A				
Max. Discharge Current	100A				
Scalability	Up to 5 Modules / 25kWh				
General Data					
Dimension (W*H*D)	415*1380*165 mm				
Weight	85kg	86kg	87kg	87kg	87kg