

## HYBRID INVERTER

Single Phase:  
Hyper-3000/3680/4600/5000/6000

For new photovoltaic systems, the LIVOLTEK hybrid solution is a wise choice for improving energy storage and utilization. It features a compact design, robust safety features, and superior performance, making the LIVOLTEK hybrid bi-directional inverter perfectly adaptable to residential and small business self-consumption needs, especially when paired with battery storage. The integrated backup power function and automatic activation in the event of a power failure enable energy independence, and maximize your solar investment. This is achieved through the export power control feature and time-of-use shifts, which help reduce electricity bills. Moreover, its modular and scalable design offers the flexibility to start small and expand as your energy needs grow.

### Product Benefits

- 24/7 monitoring and maintenance
- High charging and discharging capacity
- Fanless design, quiet and long lifespan
- 150% oversized and 150% yield
- All-in-one or split application optional
- Power critical loads during power cuts



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INVERTER

Model	Hyper-3000	Hyper-3680	Hyper-4600	Hyper-5000	Hyper-6000
<b>PV Input</b>					
Max. PV Input Power	4500Wp	5520Wp	6900Wp	7500Wp	7500Wp
Max. PV Input Voltage	600V				
Nominal Input Voltage	360V				
MPPT Voltage Range	125V - 550V				
No. of MPPTs/Strings per MPPT	1 / 1	2 / 1	2 / 1	2 / 1	2 / 1
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
<b>AC Output @ Grid</b>					
Nominal AC Power	3000W	3680W	4600W	5000W	6000W
Max. Apparent Output Power	3000VA	3680VA	4600VA	5000VA	6000VA
Nominal AC Voltage	220V / 230V / 240V				
Nominal AC Voltage Range	186V - 290V				
AC Frequency	50Hz / 60Hz				
Max. AC Current	14.0A	16.0A	20.0A	23.9A	26.1A
THDi @Rated Power[%]	< 3%				
Power Factor	-1 (Adjustable from 0.8 Leading to 0.8 Lagging)				
<b>EPS Output @ Off Grid</b>					
Nominal EPS Power	3000W	3680W	4600W	5000W	6000W
EPS Peak Power	1.1 x Pnom, 60 sec; 1.5 x Pnom, 1 sec				
Nominal Output Voltage	220V / 230V				
Nominal Frequency	50Hz / 60Hz				
Nominal Output Current	13.0A	16.0A	20.0A	21.7A	26.1A
THDv @Linear Power[%]	< 3%				
On/Off-grid Switchover Time	< 10 ms				
<b>Battery Input</b>					
Battery Type	Lithium				
Battery Voltage	40V - 60V				
Max. Charge/Discharge Current	60A	80A	100A	100A	125A
Communication with BMS	CAN				
<b>Efficiency</b>					
Max. Efficiency	97.60%		97.80%		
Euro Efficiency	97.10%		97.40%		
<b>Generator</b>					
Max. Charger Current	30A				
Max. Input Power	3000W	3680W	4600W	5000W	6000W
Bypass Current	14.0A	16.0A	20.0A	23.9A	26.1A
<b>General Data</b>					
Dimension (W*H*D)	625*415*155 mm				
Weight	29kg	30kg	30kg	30kg	30kg
Mounting Method	Wall-mounting Bracket				
Protection Rating	IP65				
Cooling	Natural Convection				
Operating Temperature Range	-25°C to +60°C (>45°C Derating)				
Display	LED & APP				
Communication	Wi-Fi / DRM / CAN / RS485				

Remarks: The range of output Voltage and frequency may vary depending upon different grid codes.