

Hybrid Inverter

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

Features

- 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



Technical Specification

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	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
AC Output @ Grid					
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)				
EPS Output @ Off Grid					
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%				
Battery Input					
Battery Type	Lithium				
Battery Voltage	40V - 60V				
Max. Charge/Discharge Current	60A	80A	100A	100A	125A
Communication with BMS	CAN				
Efficiency					
Max. Efficiency	97.6%	97.8%			
Euro Efficiency	97.1%	97.4%			
General Data					
Dimension (W*H*D)	415*625*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.