

Single Phase Low Voltage Inverter



RELIABLE POWER SUPPLY

EPS output power goes up to 5kw



LONG LIFESPAN

Market leading 10-year warranty



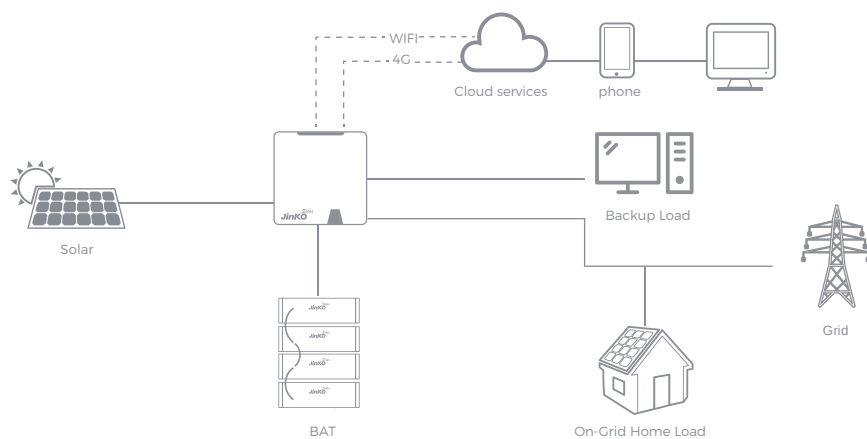
SMART ENERGY MANAGEMENT

UPS switch time within 10ms when grid off



HIGH PROTECTION

IP66 (dust proof and water proof)

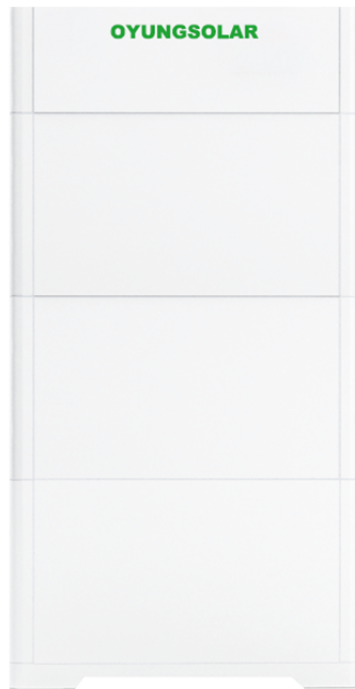


Model Name	OY-3HLVS	OY-3.6HLVS	OY-4HLVS	OY-5HLVS	OY-6HLVS
PV Input					
Max. Recommended PV Array Power	5500 Wp STC	6180 Wp STC	6500 Wp STC	7500 Wp STC	9000 Wp STC
Max. Input Voltage	550V				
Rated Input Voltage	380V				
MPPT Voltage Range	40V-530V				
Start Voltage	50V				
No. of independent MPPT Trackers / Strings per MPPT Input	2/1				
Max. Input Current per MPPT Tracker	16A				
Max. Short-circuit Current per MPPT Tracker	20A				
Battery Input					
Compatible Battery	OY-B51100-GI				
Nominal Battery Voltage	48V / 51.2V				
Battery Voltage Range	40V - 60V				
Max. Charging Power	5000W				
Max. Discharging Power	5000W				
Max. Charging Current	100 A				
Max. Discharging Current	100A				
AC Output					
Nominal AC Voltage	230 V				
AC Voltage Range	180 V to 280 V				
Rated AC Grid Frequency	50 Hz / 60 Hz				
Rated Active Power	3000 W	3680 W	4000 W	5000 W ^{x1}	6000 W
Rated Apparent Power	3000 VA	3680 VA	4000 VA	5000 VA ^{x1}	6000 VA
Max. Apparent Power	3000 VA	3680 VA	4000 VA	5000 VA ^{x1}	6000 VA
Rated Grid Output Current (@230V)	13.1A	16A	17.4A	21.7A ^{x2}	26.1A
Max. Grid Output Current	13.6A	16A	18.2A	22.7A ^{x2}	27.3A
AC Input					
Rated Apparent Power	6000 VA				
Max. Input Apparent Power from Grid	6000 VA				
Rated Input Current from Grid	A.C. 26.1A				
Max. Input Current from Grid	A.C. 27.3 A				
EPS Output					
Nominal Output Voltage	230 V				
Nominal Output Frequency	50 Hz / 60 Hz				
Rated Apparent Power	5000 VA				
Max. Output Apparent Power	5000 VA				
Peak Output Apparent Power	7500 VA, 10s				
Rated Current (@230V)	21.7 A				
Max. Output Current	21.7 A				
UPS Switch Time	≤ 10 ms				
Output THDi (@ Linear load)	< 3%				
Efficiency					
MPPT Efficiency	99.90%				
Max. Efficiency	97.60%				
Euro Efficiency	97%				
Protection					
Integrated	DC-side Disconnection Device, PV String- / Battery Input Reverse Polarity Protection, All-pole Sensitive Residual Current Monitoring Unit, Anti-islanding Protection, Ground Fault Protection, AC Output Over-current / Short Circuit Current Protection, AC Over-voltage Protection				
Overvoltage Category (as per IEC 62109-1)	AC: III; DC: II				
General Data					
Power Factor	0.8 leading to 0.8 lagging				
Dimensions (W / H / D)	483 / 455 / 193.5 mm				
Device Weight	25.1 kg				
Operating Temperature Range	-25 °C ~ +60 °C				
Noise Emissions (typical)	30 dB(A)				
Standby Consumption	< 10 W				
Cooling Concept	Natural Convection				
Protection Class (as per IEC 60529)	IP66				
Max. Permissible Value for Relative Humidity (non-condensing)	100%				
Communication with BMS	RS485 / CAN				

^{*1} For VDE-AR-N4105, Smax=Sn=4600VA,Pn=4600W ^{*2} For AS/NZS4777.2, Iac max=21.7A

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

Low Voltage LFP Battery



LONGE LIFESPAN

> 6,000 cycles backed



FAST CHARGING & DISCHARGING

Compatible to charge/discharge at 0.5C and 1C, but at 0.5C is recommended



HIGHLY COMPATIBLE

Compatible to diesel engine power plants and UPS application with on/off grid shifting times as low as 10 seconds



PREMIUM SERVICE

Over 35 technical and services centers globally, world-widely distributed network and partners



STRONG STABILITY

Multiple battery protections including communication, MOS, 2nd fault mandatory protection to enable overall full protection



UNIQUE SAFETY

Protection rating at IP65, cell-level independent fire-proof design, fire-resistant material can be exposed to 1200 degrees Celsius flame



QUICK INSTALLATION

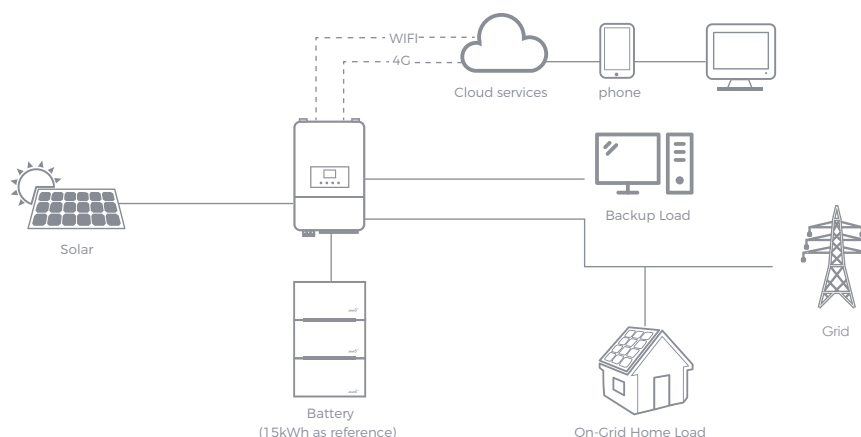
Plug and play connection saves 40% installation time



ONE-STOP SHOP

All-in-one PV+ solution provides packed warranty, one-stop service and support

CIRCUIT DIAGRAM



SPECIFICATIONS

Battery Pack		OY-B51100
Physical		
Battery Type	LFP(LiFePO4)	
Weight	58kg	
Dimensions [W*H*D]	660*410*210mm	
Enclosure Protection Rating	IP65	
Warranty	10 Years	
Electrical		
Energy Capacity	5.12kWh	
Usable Capacity	4.6kWh	
Cell Capacity	100Ah	
Depth of Discharge(DOD)	90%	
Rated Voltage	51.2 V	
Operation Voltage Range	44.8 V ~ 58.4 V	
Max Parallel Extension	4 Packs(20.48kWh)	
Cycle Life	>6000 cycles	
Operation		
Rated Charge/Discharge Current	50A/100A	
Max. Charge/Discharge Current	100A	
Peak Discharge Current	110A(5s)	
Rated DC Power	5kW	
Operation Temperature Range	-30 ~ 55 ℃	
Storage Temperature	-10 ~ 45 ℃	
Humidity	0~90%	
Certification		
Cell Certificates	UL1642, IEC62133, IEC62619, UN38.3	
Pack Certificates	IEC62619, UN38.3	