

# **Product Features**



#### **Multi-Function Output**

Support On-Grid, Smart Load and Back-up Load



## High PV Input Power

PV Input Power up to 7500W Max. MPPT Charging Current up to 120A



## **High Efficiency**

MPP Tracking Efficiency ≥99.9% Battery Mode Conversion Efficiency ≥97%



#### Powerful Performance

200% Overload Capacity@15S Max Grid Input Voltage 380V



#### Solid Quality & Service

IP66 Protection Design for Anti-Dust and Waterproof 5-Year Replacement 5-Year Service Warranty

Model	IHY-6KL1A
Efficiency	
MPPT Tracking Efficiency	99.9%
Max. Conversion Efficiency (PV)	97.6%
European Efficiency	97.0%
PV Input	
Max. PV Input Power	7500W
Max. DC Input Voltage	500V
Start-Up Voltage	125V
MPPT Voltage Range	150V~450V
Max. Input Current	18A/18A
MPP Trackers	2
AC Input/Output(On-Grid)	
Nominal Output Power	6000W
Max. Output Apparent Power	6000VA
Nominal Output Voltage	220VAC/230VAC
Max. Output Current	27A
Max. Grid Input Voltage	380Vrms
Output Voltage Range	180VAC~280VAC
Output Frequency Range	45Hz~65Hz
Power Factor Adjustment Range	0.8 Leading to 0.8 Lagging
Total Current Harmonic Distortion	<3%
AC Output (Back up)	
Nominal Output Power	6000W
Max. Output Apparent Power	6000VA
Peak Output Power	12000VA@15s
Nominal Output Voltage	230VAC
Max. Output Current	27A
Nominal Output Frequency	50/60Hz
Total Voltage Harmonic Distortion	<3%
Switch Time	10mS
Overload Capacity	200%@15S
Battery	
Battery Type	Lead-acid/Lithium-ion/User Defined
Rated Voltage	48V
Battery Voltage Range	40V~60V
Max. MPPT Charging Current	120A
Max. Mains/ Generator Charging Current	120A
Max. Discharging Current	120A
General	IZUA
Dimensions D*W*H	198mm*427mm*554mm
Net Weight	20kg
Operating Temperature Range	-25°C~+60°C,>45°C Power Denating
Max. Operating Altitude  Communication	4000m, >2000m Power Derating
	WIFI/RS485/CAN/Dry Contact
Diesel Generator Support	Yes
Smart Load Support	Yes
Number of Parallel	12
Cooling Method	Natural Convection
Noise	<40dB
Authentication Level	IEC62109-1, IEC62109-2, IEC61683, IEC62116, IEC6172
Protection	
Ingress Protection	IP66
PV Reverse Protection	Yes
Insulation Impedance Detection	Yes
Residual Current Monitoring	Yes
Overvoltage Protection	Yes
Overload Protection	Yes
O VOTIONAL TOCCCOOL	
Short Circuit Protection	Yes