



8~12kW 3P-HYBRID

Product Features

- Multi-Function Output**
Support On-Grid, Smart Load and Back-up Load
- High PV Input Power**
PV Input Power up to 16000W/24000W
Max. MPPT Charging Current up to 190A/250A
- High Efficiency**
MPP Tracking Efficiency ≥99.9%
Battery Mode Conversion Efficiency ≥97.5%
- 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

Model	IHY-8KL3	IHY-12KL3
Efficiency		
MPPT Tracking Efficiency	99.9%	
Max. Conversion Efficiency (PV)	98%	
European Efficiency	97.5%	
PV Input		
Max. PV Input Power	16000W	24000W
Max. PV Input Voltage	1000V	
Start-Up Voltage	150V	
MPPT Voltage Range	200V~800V	
Max. Input Current	18A/18A	36A/18A
MPP Trackers	2	
AC Input/Output(On-Grid)		
Nominal Output Power	8000W	12000W
Max. Output Apparent Power	8800VA	13200VA
Nominal Output Voltage	380VAC/400VAC(3W+N+PE)	
Max. Output Current	13.3A	20A
Max. Grid Input Voltage	380Vrms(L-N)	
Output Voltage Range	180VAC~280VAC(L-N)	
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	8000W	12000W
Max. Output Apparent Power	8800VA	13200VA
Peak Output Power	16000VA@15S	24000VA@15S
Nominal Output Voltage	220VAC/380VAC,230VAC/400VAC	
Max. Output Current	13.3A	20A
Nominal Output Frequency	50Hz/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	190A	250A
Max. Mains/Generator Charging Current	190A	250A
Max. Discharging Current	190A	250A
General		
Dimensions D*W*H	256mm*475mm*683mm	
Net Weight	38kg	
Operating Temperature Range	-25~+60°C,>45°C Power Derating	
Max. Operating Altitude	4000m,>2000m Power Derating	
Communication	WIFI/RS485/CAN/Dry Contact	
Diesel Generator Support	Yes	
Smart Load Support	Yes	
Number of Parallel	12	
Cooling Method	Intelligent Fan Cooling	
Noise	<55dB	
Authentication Level	IEC62109-1, IEC62109-2, IEC61683, IEC62116, IEC61727	
Protection		
Ingress Protection	IP66	
PV Reverse-Polarity Protection	Yes	
Insulation Impedance Detection	Yes	
Residual Current Monitoring	Yes	
Overvoltage Protection	Yes	
Overload Protection	Yes	
Short Circuit Protection	Yes	
Over Temperature Protection	Yes	
Surge Protection	DC: TYPE II,AC: TYPE III	