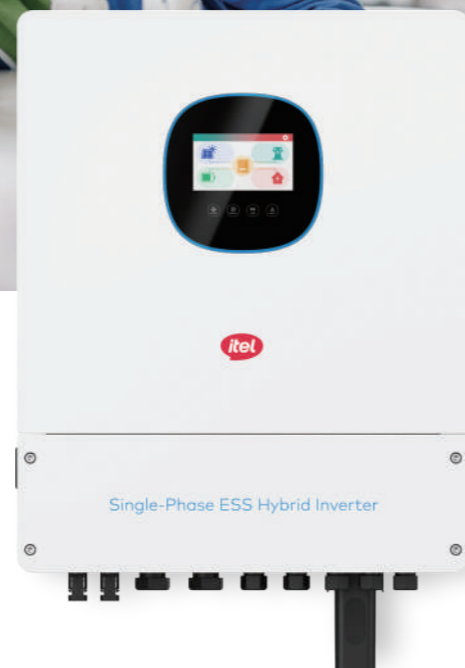


Hybrid Inverter(IP66)



6kW SP-HYBRID



Product Features

Multi-Function Output
Support On-Grid, Smart Load and Back-up Load

High PV Input Power
PV Input Power up to 12000W
Max. MPPT Charging Current up to 120A

High Efficiency
MPP Tracking Efficiency $\geq 99.9\%$
Battery Mode Conversion Efficiency $\geq 97\%$

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

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	12000W
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	
Dimensions D*W*H	198mm*427mm*554mm
Net Weight	20kg
Operating Temperature Range	-25°C-+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	Natural Convection
Noise	<40dB
Authentication Level	IEC62109-1, IEC62109-2, IEC61683, IEC62116, IEC61727
Protection	
Ingress Protection	IP66
PV Reverse 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