itel Energy

REPLACEMENT WARRANTY SOLUTION

SPARTA INVERTER SERIES | IHY-6K6L1C

Product Color:
White / Gray

Hybrid Inverter IP66

WORKS WITH SMART GO



6.6kW | SP-HYBRID

Multi-Function Output

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

High PV Input

Dual MPPT; PV Input Power up to 13200W
Max Solar Charging Current up to 140A

High Efficiency

MPP Tracking Efficiency ≥99%
Max. Battery Mode Conversion Efficiency >93%

Powerful Performance

Reliable 110% continuous load capacity
Smart TOU for intelligent load shifting

Solid Quality & Service

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

User-Friendly Design

Low noise performance with perfect heat dissipation
Smart LCD touch display for easy control

Model	IHY-6K6L1C
Efficiency	
MPP Tracking Efficiency	99.90%
Max. Battery Mode Conversion Efficiency	>93%
PV Input	
Max. PV Input Power (W)	13200W
Max. PV Input Voltage (V)	500
Start-up Voltage (V)	60V
MPPT Voltage Range (V)	60~425
Max. Input Current (A)	20/20
Number of MPPT / Number of Strings per MPPT	2 / 1
AC Output	
Max. output power-Hybrid (W)	10000
Nominal Output Power-No Grid (W)	6600
Max. Output Apparent Power (VA)	6600
Nominal Output Voltage (Vac)	220/230/240 (L+N+PE)
Max. Output Current (A)	30
Output Frequency (Hz)	50/60
Power Factor	0.8 Leading to 0.8 Lagging
Total Current Harmonic Distortion	<3%
Surge Power (VA)	13200 @5s
Switch Time	<20ms
Overload Capability	10s @110%≤Load<140% 7s @140%≤Load<200%
AC Input	
Nominal Input Voltage (Vac)	230
Input Voltage Range (Vac)	90~280
Max. AC Input Current (A)	50 (Bypass Mode)
Nominal Operating Frequency (Hz)	50/60
Battery	
Battery Type	Lead-acid/Lithium-ion/User Defined
Rated Voltage (V)	48
Battery Voltage Range (V)	40~60
Max. Solar Charging Current (A)	140
Max. Mains/Generator Charging Current (A)	140
Max. Discharging Current (A)	140
General	
Dimensions (D*W*H mm)	180*309*420
Net Weight (kg)	15
Operating Temperature Range (°C)	-40 ~ +60 (>45°C Power Derating)
Max. Operating Altitude (m)	3000 (>2000m Power Derating)
Communication	WIFI/RS485/CAN/Dry Contact
Diesel Generator Support	Yes
Smart Load Support	Yes
Cooling Method	Intelligent Fan Cooling
Parallel Capability	Maximum 12 units
Noise (dB)	<55
Authentication Level	IEC62109-1, IEC62109-2, IEC61683
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