CUSTOMER SUPPORT & TECHNICAL HELPLINE
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itel Energy SPARTA | IHY-6K6L1C

6.6kW IP66 Hybrid Solar Inverter (6-Year Replacement Warranty)

13,200W	IP66	99.9%
MAX PV INPUT	WATERPROOF	MPPT EFF.

Multi-Function Output
Supports On-Grid, Smart Load, and Back-up Load flexibility.

High PV Input Power
Dual MPPT with up to 13,200W PV input & 140A max solar charge current.

IP66 Weather Protection
Heavy-duty anti-dust and waterproof design for demanding conditions.

6+6 Warranty Package
6-Year Replacement Warranty + 6-Year Service Warranty coverage.

Solid Quality & Service
- IP66 protection against dust and water ingress.
- 6-Year Full Replacement Warranty solution.
- Additional 6-Year Service Warranty coverage.
- Reliable 110% continuous load capability.

Powerful Efficiency
- MPP tracking efficiency ≥ 99.90%.
- Max battery mode efficiency > 93%.
- Smart TOU (Time of Use) for intelligent load shifting.
- 140A Max mains & solar charging current.

User-Friendly Operation
- Smart LCD touch display for intuitive control.
- Low noise performance with heat dissipation.
- Parallel operation up to 12 units.
- Diesel Generator & Smart Load support built-in.

Technical Datasheet Specifications (Model: IHY-6K6L1C)

Smart Solar Certified

PARAMETER	SPECIFICATION DETAILS
EFFICIENCY & SOLAR (PV) INPUT	
MPPT Tracking / Max Battery Efficiency	99.90% / > 93%
Max. PV Input Power / Max. PV Voltage	13200 W / 500 V
Start-up Voltage / MPPT Voltage Range	60 V / 60 V ~ 425 V
Max. Input Current / MPPT Trackers	20A / 20A (Dual MPPT / 1 String per MPPT)
AC OUTPUT & GRID RATINGS	
Nominal Output Power (No Grid) / Max Hybrid	6600 W (No Grid) / 10000 W (Max Hybrid Output)
Nominal Output Voltage & Frequency	220 / 230 / 240 Vac (L+N+PE) | 50 / 60 Hz
Max. Output Current / Surge Power	30 A / 13200 VA (@ 5 sec)
Switch Time & THD	< 20 ms | Total Current Harmonic Distortion < 3%
Overload Capability	10s @ 110% ≤ Load < 140% | 7s @ 140% ≤ Load < 200%
BATTERY & CHARGER PARAMETERS	
Battery Types Supported / Rated DC Voltage	Lead-acid / Lithium-ion / User Defined (48 V Rated, 40~60V Range)
Max. Charge / Discharge Current	140A (Solar) / 140A (Mains) / 140A (Discharging)
GENERAL & PROTECTION FEATURES	
Dimensions (D × W × H) / Net Weight	180 × 309 × 420 mm | 15 kg
Communication Ports / Parallel Support	WIFI / RS485 / CAN / Dry Contact | Up to 12 Units Parallel
Protection Level & Certifications	IP66 Water & Dustproof | IEC62109-1, IEC62109-2, IEC61683

• 6-Year Replacement Warranty • IP66 Dust & Waterproof • Smart Load Management • Generator Compatible • Parallel Up To 12 Units