CUSTOMER SUPPORT & TECHNICAL HELPLINE
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itel 4~6kW Pro SP-HYBRID Inverter

Single-Phase Hybrid Inverter | Models: IPV-4K24U Pro / IPV-6K48U Pro

8000W	200%	IP54
MAX PV INPUT	OVERLOAD @5S	RATING

Dual Output
Supports Smart Load and Main Load management.

High PV Input Power
PV Input up to 8000W (6kW model) / 6000W with 120A MPPT current.

Powerful Surge Support
150% overload capacity @10s & 200% overload capacity @5s.

Quality & Service
IP54 anti-dust design with 3-Year Replacement + 5-Year Service Warranty.

High Efficiency

- MPPT Tracking Efficiency ≥ 99.9%.
- Max Battery Mode Conversion Efficiency ≥ 93%.
- Max Grid Input Voltage 380Vrms.
- Max MPPT Charging Current up to 120A.

Robust Performance

- Dual Output (Smart Load & Main Load).
- 12000W Surge power @ 5s (6kW Pro model).
- Supports Diesel Generator connection.
- Fast switch time: 10ms (UPS) / 20ms (Appliances).

Protection & Control

- IP54 Protection against dust & water spray.
- DC Type III & AC Type III Surge Protection.
- Overvoltage, Overload & Short Circuit protection.
- WIFI / RS485 / RS232 / Dry Contact communication.

Technical Specifications

Smart Solar Official Datasheet

MODEL NAME	IPV-4K24U PRO	IPV-6K48U PRO
SOLAR (PV) INPUT DATA		
Max. PV Input Power	8000 W	6000 W
Max. PV Input Voltage / Start-Up	500 V / 80 V	
MPPT Voltage Range / Input Current	85 V - 450 V / 27 A	85 V - 450 V / 15 A
Number of MPP Trackers	1 Tracker	
AC INPUT & OUTPUT DATA		
Nominal AC Output Power / Apparent Power	4000 W / 4000 VA	6000 W / 6000 VA
Nominal Voltage / Max AC Input Current	230 VAC / 28A (Bypass)	220/230/240V / 50A (Bypass)
Surge Power (@5s)	8000 W	12000 W
Overload Capacity	105%-150% @ 10s | 150%-200% @ 5s	
BATTERY & CHARGER SPECIFICATIONS		
Battery Type / Rated DC Voltage	Lead-acid / Lithium-ion / User Defined (24V)	Lead-acid / Lithium-ion / User Defined (48V)
Battery Voltage Range	20 V - 30 V	40 V - 60 V
Max. MPPT Charging Current	120 A	120 A
Max. Discharging Current	130 A	160 A
GENERAL & PHYSICAL PARAMETERS		
Dimensions (D × W × H) / Weight	120 × 347 × 445 mm | 13 kg	120 × 347 × 445 mm | 9.2 kg
Parallel Support / Cooling	No Parallel	Up to 12 Units Parallel | Intelligent Fan
Certifications & Standards	IEC62109-1, IEC62109-2, IEC61683 | Ingress: IP54	

- 3-Year Replacement + 5-Year Service
- IP54 Protection Design
- 200% Surge Capacity @ 5S
- Smart & Main Dual Output
- Generator & Parallel Support