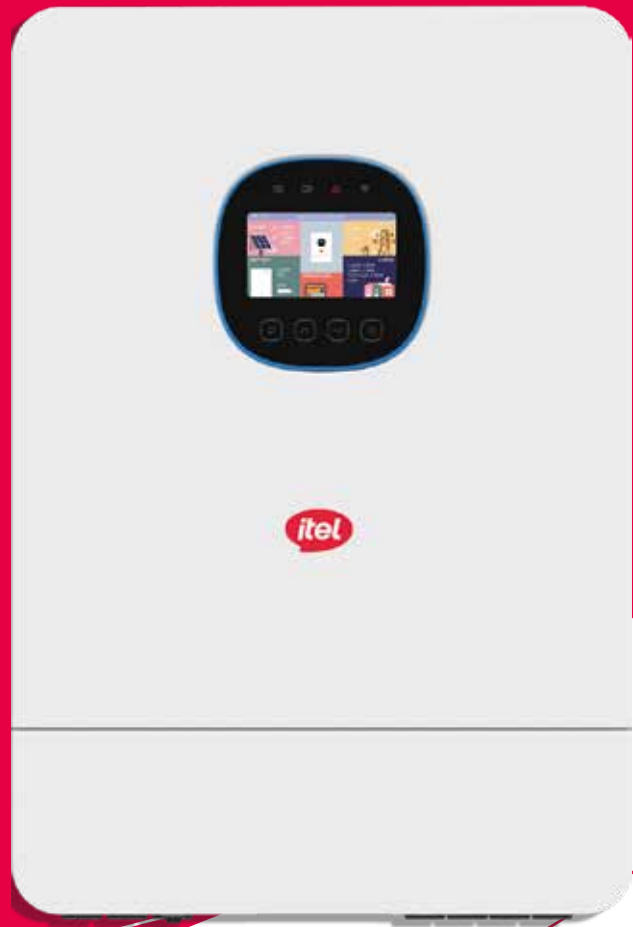


IPV-11K48T

HYBRID INVERTER



FEATURES



Power Reliability

- 150% AC Output Oversizing
- 150% AC Output Overloading @5s
- UPS Switching Time: <20ms
- Diesel Generator Compatible with 3-Layer Power Backup



Durability & Service

- IP54 Protection
- 3-Year Warranty
- Surge Protection: DC/AC TYPE III



Expandability

- PV Compatibility: Dual MPPT Inputs (30A+20A)
- Parallel Operation: Supports up to 12 Units



Energy Yield

- High PV Input Capacity: Supports up to 16kW PV, MPPT 30A/20A
- High Efficiency: MPPT $\geq 99\%$, Battery Conversion Efficiency 94%
- Low Startup Voltage: 85V



User Convenience

- Smart Load Management
- Remote Control and Monitoring Capability
- Low Noise Operation: < 60dB at Full Load
- Lightweight Design for Easy Installation: 20kg



Model	IPV-11K48T
Efficiency	
MPPT Efficiency	99.90%
Max. Battery Mode Conversion Efficiency	94%
PV Input	
Max. PV Input Power (W)	16500
Max. PV Input Voltage (V)	535
Start-up Voltage (V)	85
MPPT Voltage Range (V)	75-500
Max. Input Current (A)	30/20
Number of MPPT	2
Number of Strings per MPPT	2+1
AC Input	
Nominal AC Input Power (W)	230
Input Voltage Range (Vac)	90-280
Max. AC Input Current (A)	73 (Bypass Mode)
Nominal Operating Frequency (Hz)	50/60
AC Output	
Nominal AC Output Power (W)	11000
Max. Output Apparent Power (VA)	11000
Nominal AC Output Voltage (Vac)	220/230/240 (L+N+PE)
Max. Output Current (A)	50
Total Current Harmonic Distortion	98%
Nominal AC Frequency (Hz)	50/60
Switch Time (ms)	<10 (UPS) <20 (Appliances)
Surge Power (VA)	18000 @ 5s
Overload Capability	102%<Load≤110% @ 1min 110%<Load≤130% @ 15s 130%<Load≤150% @ 10s Load>150% @ 5s
Protection	
Battery Type	Lead-acid/Lithium-ion/User Defined
Rated Voltage (V)	48
Battery Voltage Range (V)	40-60
Max. Solar Charging Current (A)	200
Max. Mains/Generator Charging Current (A)	180
Max. Discharging Current (A)	220
General	
Dimensions (L*W*H, mm)	410*156*600
Net Weight (kg)	20
Operating Temperature Range (°C)	-25~+60 (>45°C Power Derating)
Max. Operating Altitude (m)	3000 (>2000m Power Derating)
Communication	Wi-Fi/RS485/CAN/Dry Contact
Diesel Generator Support	Yes
Smart Load Support	Yes
Parallel Capability	Single Phase: 12 Three Phase: 12
Cooling Method	Intelligent Fan Cooling
Noise (dB)	<60
Authentication Level	IEC62109-1, IEC62109-2, IEC61683
Protection	
Ingress Protection	IP54
Overvoltage Protection	Yes
Overload Protection	Yes
Short Circuit Protection	Yes
Over Temperature Protection	Yes
Surge Protection	DC: TYPE III; AC: TYPE III

*This material is for reference only and does not constitute any commitment regarding product performance or specifications.
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