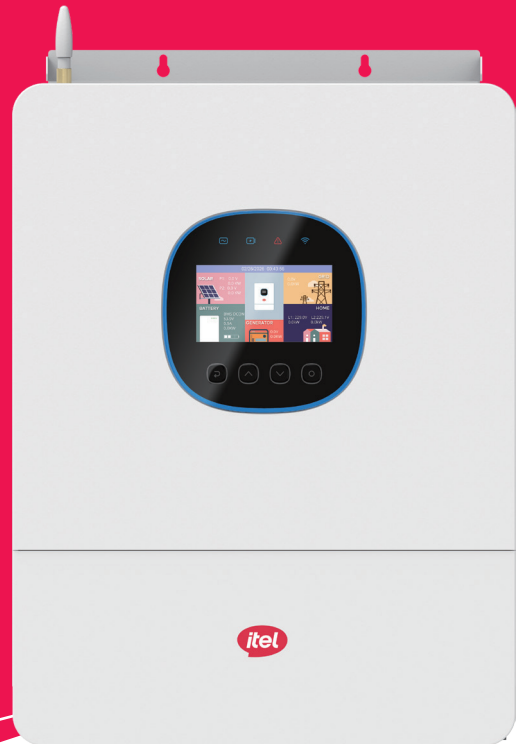


IPV-6K648T

Hybrid Inverter IP54



IPV-6K648T



High PV Input

2 MPPTs, Max. 20A per MPPT
up to 13.2kW PV Input Power
Max. MPPT Charging Current up to 160A



Stable & Powerful Performance

30s @105%≤Load<150%, 5s @≥150%Load
Maximum Parallel Capability up to 12 Units
Smart Load & Main Load Dual Output
Grid / Generator / Private Power Input (Optional)



High Efficiency

Pure Sine Wave Output
MPPT Efficiency ≥99%
Battery Mode Efficiency >93%



Reliable Protection

Overload Capability up to 150% for Heavy-load Startup
Low Noise <50dB at Full Load
IP54 Protection
3-Year Replacement



Model	IPV-6K648T
Efficiency	
MPPT Efficiency	99.90%
Max. Conversion Efficiency	>93%
PV Input	
Max. PV Input Power (W)	13200
Max. PV Input Voltage (V)	500
Start-up Voltage (V)	70
MPPT Voltage Range (V)	60~450
Max. Input Current (A)	20/20
Number of MPPT	2
Number of Strings per MPPT	1
AC Output	
Nominal Output Power (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
Total Current Harmonic Distortion	<3%
Surge Power (VA)	13200 @ 5s
Overload Capability	30s @105%<Load<150% 5s @≥150%Load
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)	160
Max. Mains/Generator Charging Current (A)	120
Max. Discharging Current (A)	140
General	
Dimensions (L*W*H mm)	425*535*220
Net Weight (kg)	10.5
Operating Temperature Range (°C)	-25 ~ +60 (>45°C Power Derating)
Max. Operating Altitude (m)	3000 (>2000m Power Derating)
Communication	WIFI/RS485/CAN/RS232/Dry Contact
Diesel Generator Plug-in	Yes
Dual Load Output	Yes, one of the outputs would be bidirectional
Cooling Method	Intelligent Fan Cooling
Parallel Capability	Maximum 12 units
Noise (dB)	<50
Protection	
Ingress Protection	IP54
PV Reverse Protection	Yes
Overvoltage Protection	Yes
Overload Protection	Yes
Short Circuit Protection	Yes
Over Temperature Protection	Yes
Surge Protection	DC: TYPE III, AC: TYPE III