itel Energy

IPV-1K612U

Off-Grid Inverter



IPV-1K612U

High PV Input Power

1 MPP Tracker, PV Input Power up to 3200W
Max. Solar Charging Current up to 140A

High Efficiency

MPPT Efficiency ≥99%
Maximum Battery Mode Conversion Efficiency >93%

Highly User-friendly Design

Low noise performance with perfect heat dissipation
Looks like a home appliance with stunning apperance
LCD Display with physical button

Powerful Performance

110%~150% Load @ 30s
Intelligent time-of-use (TOU) mode

Solid Quality

IP54 Protection Design integrated with replaceable dust filter for harsh environmental condition
Warranty 3 years

Model	IPV-1K612U
Efficiency	
MPPT Efficiency	>99%
Max. Battery Mode Conversion Efficiency	94%
PV Input	
Max. PV Input Power (W)	3200
Max. PV Input Voltage (V)	450
Start-up Voltage (V)	30
MPPT Voltage Range (V)	35-400
Max. Input Current (A)	20
Number of MPPT	1
Number of Strings per MPPT	1
AC Input	
Nominal Input Voltage (Vac)	230
Input Voltage Range (Vac)	90~280
Max. AC Input Current (A)	9.5 (Bypass Mode)
Nominal Operating Frequency (Hz)	50/60
AC Output	
Nominal AC Output Power (W)	1600
Max. Output Apparent Power (VA)	2000
Nominal AC Output Voltage (Vac)	220/230/240 (L+N+PE)
Max. Output Current (A)	9.1
Total Current Harmonic Distortion	<3%
Nominal AC Frequency (Hz)	50/60
Surge Power (VA)	3200 @ 5s
Overload Capability	110%~150% Load @ 30s, ≥150% Load @ 5s
Battery	
Battery Type	Lead-acid/Lithium-ion/User Defined
Rated Voltage (V)	12
Battery Voltage Range (V)	10.5-15
Max. Solar Charging Current (A)	140
Max. Mains/Generator Charging Current (A)	80
Max. Discharging Current (A)	140
General	
Dimensions (L*W*H, mm)	237*305.6*100
Net Weight (kg)	5
Operating Temperature Range (°C)	-25 ~ +60 (>45°CPower Derating)
Max. Operating Altitude (m)	3000 (>2000m Power Derating)
Communication	WIFI/RS485/RS232
Diesel Generator Support	Not Support
Smart Load Support	Not Support
Parallel Capability	Not Support
Cooling Method	Intelligent Fan Cooling
Noise Level (dB)	≤50
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

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