

Hybrid Inverter IP54 6KW

3-Year Replacement Warranty
5-Year Service Warranty



27A
(PV Input Power)

99.9%
(MPP Tracking Efficiency)

12000VA
(Surge Power)

6KW
(Power Range)

Safety & Reliability



IP54 Protection Degree

Efficiency Input



27A
Max. PV Input Current

120A
Max. Charge/ Discharge Current



6KW-72KW Output
Max. 12Pcs Parallel (hybrid)

Quiet Operating Environment
Operating Noise Below 60 dB



<60 dB

Smart Grid Adaptation
90 – 280 VAC



Stable High Temperature Operation
at 55°C without Power Degradation



55°C

Comprehensive Warranty



MODEL	IPV-6K48U
Efficiency	
MPPT Tracking Efficiency	99.9%
Max. Battery Mode Conversion Efficiency	93%
PV Input	
Max. PV Input Power	6000W
Max. DC Input Voltage	500V
Start-up Voltage	75V
MPPT Voltage Range	85V~450V
Max. Input Current	27A
Number of MPPT Trackers	1
AC Input	
Max. Grid Input Voltage (Absolute Maximum Ratings)	>380VAC
Input Voltage Range	90-280VAC
Maximum AC Input Current	50A
Nominal Operating Frequency	50/60Hz
AC Output	
Nominal AC Output Power	6000W
Max. Output Apparent Power	6000VA
Nominal AC Output Voltage	220/230/240VAC
Total Voltage Harmonic Distortion	<3%
Nominal AC Output Current	27.3 A
Max. AC Output Current	54.6A (5 seconds)
Nominal AC Frequency	50Hz/60Hz
Switch Time	10ms
Surge Power	12000VA
Load Capacity of Motor	5PH
Overload Capacity	10s@110%~150% load 5s@150%~200% load
Battery	
Battery Type	Lead-acid/Li-ion/User Defined
Rated Battery Voltage	48VDC
Battery Voltage Range	40V-60V
Max. MPPT Charging Current	120A
Max. Mains/Generator Charging Current	120A
Max. Battery Discharging Current	130A
General	
Dimensions D*W*H (mm)	120*346.6*444.7
Net Weight (kg)	15
Operating Temperature Range	-10~ +55 >45 Power Derating
Max. Operating Altitude	4000m, >2000m Power Derating
Communication	WiFi/RS485(BMS)/Dry Contact/RS232
Diesel Generator Support	Yes, External ATS
Smart Load Support	Yes, External Contactor
Number of Parallel	12
Cooling Method	Intelligent Fan Cooling
Noise	< 60dB
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: TypeII, AC: TypeIII

MAP OF SERVICE CENTER

Itel Energy And Carlcare Together
Establish After-Sales Service Centers

Itel Energy Hotline:
+92 42111 999 666



CarlCare Service Pvt Ltd (www.carlcare.com/pk/) is dedicated to providing top-notch after-sales support for itel Energy customers in Pakistan

- 1** senior repair center was established in lahore
- 13** authorized service center provide 3-year replacement service
- 46** official service center provide 3-year replacement service

Covering **34** major cities in Pakistan, like Islamabad, Pindi, Lahore and Karachi etc