

Single Phase Dual Output IP54 8~12k W-48V

3-Year Replacement Warranty
5-Year Service Warranty
Max PV Input Power-16000W



2

(No. of MPPT Trackers)

27~30A

(PV Input Current)

99.5%

(MPP Tracking Efficiency)

16~24KVA

(Surge Power)

8~12KW

(Power Range)

Compatibility



Lead Acid /
Li-ion



Safety & Reliability



IP54 Protection
Degree



Efficiency Input

27~30A
Max. PV Input Current

180~250A
Max. Charge/ Discharge Current



8KW~96KW Output

Single Phase: 9PCS Parallel
3 Phase: 12PCS Parallel



12KW~144KW Output

Single Phase: 6PCS Parallel
3 Phase: 12PCS Parallel



Smart Grid Adaptation 90~280 VAC



Stable High Temperature Operation
at 45° without Power Degradation

45°C



Comprehensive Warranty



Quiet Operating Environment Operating Noise Below 55 DB



<55 dB

Model	IPV-8K48U	IPV-12K48U
Efficiency		
MPPT Tracking Efficiency	99.5%	
Max. Battery Mode Conversion Efficiency	93%	95%
PV Input		
Max. PV Input Power	16000W	
Max. PV Input Voltage	500V	
Start-Up Voltage	75V	
MPPT Voltage Range	85V~450V	
Max. Input Current	30A+15A	27A+27A
MPP Trackers	2	
AC Input		
Max. Grid Input Voltage	380Vrms	
Nominal Voltage(Opional)	220VAC/230VAC/240VAC	
Input Voltage Range	90VAC-280VAC	
Max. AC Input Current	36.4A(Bypass Mode)	90A(Bypass Mode)
Nominal Operating Frequency	50/60Hz	
THDi	<3%	
AC Output		
Nominal AC Output Power	8kW	12kW
Max. Output Apparent Power	8kVA	12kVA
Nominal AC Output Voltage(Opional)	220VAC/230VAC/240VAC	
Total Voltage Harmonic Distortion	<3%	
Nominal AC Frequency	50Hz	
Max. AC Output Current	10mS(UPS);20mS(Applicances)	
Switch Time		
Surge Power	16kW@5S	24kW@5S
Overload Capacity	105%-150%@10S,150%-200%@5S	
Battery		
Battery Type	Lead-acid/Lithium-ion/User Defined	
Rated Voltage	48V	
Battery Voltage Range	40~60V	
Max. MPPT Charging Current	160A	210A
Max. Mains/Generator Charging Current	160A	210A
Max. Discharging Current	180A	250A
General		
Dimensions D*W*H	125mm*420mm*520mm	125mm*525mm*630mm
Net Weight	20kg	28.5kg
Operating Temperature Range	-10°C-55°C,>45°C Power Derating	
Max. Operating Altitude	4000m,>2000m Power Derating	
Communication	WIFI/RS485/CAN/RS232/Dry Contact	
Diesel Generator Support	Yes	
Smart Load Support	Yes	
Number of Parallel	Single Phase:9 Three Phase:12	Single Phase:6 Three Phase:12
Cooling Method	Intelligent Fan Cooling	
Noise	<55dB(PV Connected) <45dB(No PV Connected)	<60dB
Authentication Level	IEC62109-1,IEC62109-2,IEC61683	

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