

# 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



Model	IPV-8K48U	IPV-12K48U
<b>Efficiency</b>		
MPPT Tracking Efficiency	99.5%	
Max. Battery Mode Conversion Efficiency	93%	95%
<b>PV Input</b>		
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	
<b>AC Input</b>		
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%	
<b>AC Output</b>		
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(Applications)	
Switch Time	16kW@5S	24kW@5S
Surge Power	105%-150%@10S,150%-200%@5S	
Overload Capacity	105%-150%@10S,150%-200%@5S	
<b>Battery</b>		
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
<b>General</b>		
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 Carlare Together  
Establish After-Sales Service Centers

Itel Energy Hotline:  
+92 42111 999 666



CarlCare Service Pvt Ltd ([www.carlcare.com/pk/](http://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