

ATOM SERIES

9 KW 11 KW

PV11000 & PV14000 SOLAR HYBRID INVERTER

160A DUAL MPPT



KEY SALIENT FEATURES

- ✓ INTRODUCING 1ST TIME IN PAKISTAN REAL 7TH GEN INVERTER
- ✓ ST SINGAPORE BASED HIGH EFFICIENCY IGBT/MOSFET
- ✓ FAST PERFORMANCE CHIP. INSTANT POWER. ZERO DELAYS.
- ✓ ATOM SERIES INVERTER SUPPORTS MULTIPLE OPERATION MODES
- ✓ 100% PURE SINE WAVE SOLAR INVERTER
- ✓ OUTPUT POWER FACTOR 1.0
- ✓ BUILT-IN WI-FI AVAILABLE FOR IOS/ANDROID DEVICES
- ✓ INVERTER RUNNING WITH BATTERY & WITHOUT BATTERY
- ✓ 1 BUTTON RESTORE SETTING OPTIONS IN PROGRAM
- ✓ BATTERY EQUALIZATIONS
- ✓ RECORD FAULT CODE FEATURE IN PROGRAM
- ✓ ADAPTABLE TO MAIN VOLTAGE / GENERATOR POWER
- ✓ CONFORMAL COATING TO PREVENT FROM DUST AND HUMIDITY
- ✓ BUILT-IN AUTOMATIC ELECTRONICS BREAKER FOR OVERLOAD & SHORT CIRCUIT PROTECTION
- ✓ NEW COLOR SCREEN LCD FUNCTION DESIGN WITH TOUCH BUTTONS
- ✓ BUILT-IN ANTI DUST FOR HARSH ENVIRONMENT
- ✓ COMPATIBLE WITH ALL KINDS OF LITHIUM BATTERIES
- ✓ ADJUSTABLE PARAMETERS
- ✓ AUTOMATIC LITHIUM BATTERY ACTIVATION
- ✓ SURGE CAPACITY 2* RATED POWER FOR 5 SECONDS
- ✓ BATTERY CHARGING CURRENT UPTO 160A (AC + SOLAR)
- ✓ MPPT BASED SOLAR CHARGE CONTROLLER (160A)

- ✓ HIGH PV INPUT VOLTAGE RANGE (90~450 VDC)
- ✓ SMART DUAL OUTPUT FOR NORMAL AND HEAVY LOAD
- ✓ PV INPUT CURRENT 18X18A
- ✓ BUILT-IN ZERO EXPORT



AVAILABLE ON



MODEL	ATOM SERIES - PV11000		ATOM SERIES - PV14000	
Phase	1-Phase			
Maximum PV Input Power	11000 W		14000 W	
Rated Output Power	9000 W		11000 W	
Maximum Solar Charging Current	160 A		160 A	
GRID-TIE OPERATION				
PV INPUT(DC)				
Nominal DC Voltage/Maximum DC Voltage	360 VDC/500 VDC			
Maximum DC Open Circuit Voltage	500Vdc			
Maximum DC Voltage	90~450 VDC			
Number of MPPT Trackers/Maximum Input Current	2/18A+18A			
GRID OUTPUT(AC)				
Nominal Output Voltage	220/230/240 VAC			
Output Voltage Range	195.5-253 VAC			
Nominal Output Current	40A		47A	
Power Factor	>0.99			
Feed-in Grid Frequency Range	49~51±Hz			
EFFICIENCY				
Maximum Conversion Efficiency (Solar to AC)	98%			
TWO LOAD OUTPUT POWER(V2.0)				
Full Load	9000 W		11000 W	
Maximum Main Load	9000 W		11000 W	
Maximum Second Load(battery mode)	1640W~5740W		2040~7140W	
Main Load Cut Off Voltage	52 VDC		52 VDC	
Main Load Return Voltage	54 VDC		54 VDC	
OFF-GRID OPERATION				
AC INPUT				
AC Start-up Voltage/Auto Restart Voltage	120-140 VAC/180 VAC			
Acceptable Input Voltage Range	90-280 VAC or 170-280 VAC			
Maximum AC Input Current	40 A		50 A	
Nominal operating frequency	50/60Hz			
Surge power	18000W		22000 W	
BATTERY MODE OUTPUT(AC)				
Nominal Output Voltage	220/230/240 VAC			
Output Waveform	PURE SINE WAVE			
Efficiency(DC to AC)	94%			
BATTERY & CHARGER				
Nominal DC Voltage	48 VDC		48 VDC	
Maximum Charging Current (Solar to AC)	160A		160 A	
Maximum AC Charging Current	160A			
GENERAL				
PHYSICAL				
Dimension,D x W x H(mm)	500 x 390 x 136mm			
Net Weight(kgs)	14.5		14.7	
INTERFACE				
Communication Port	RS232/Wi-Fi/GPRS			
ENVIRONMENT				
Operating Temperature	-10~50°C			

Note: Product specifications are subject to change without further notice

