

tuncmatik

Solarix MH Series

3/5 kW



Pure sinewave output

Full compatibility with all kinds of electrical devices, the ideal solution for your critical applications.

Wide input voltage range (90-280 VAC)

The ability to work online in electrical household appliances at voltages between 90-280VAC, in computer applications at voltages between 170-280VAC without switching to the battery.

Intelligent charging technology for optimal battery performance

Since Solarix solar inverters charge the battery with a 3-step battery charging algorithm, they extend the battery life, reduce your operating costs, and provide savings.

High performance microprocessor

Thanks to the digital structure and high speed of the CPU-controlled control board, it provides full protection by performing the protection functions of the Solar Inverter such as overload, short circuit, low-high voltage and over-temperature in a timely manner, thus ensuring that the Solar Inverter has a stable and reliable structure.

RS-232 & USB communication port

To allow for unattended Solar Inverter to shutdown/start-up and status monitoring, connect the communication cable one end to the USB/RS-232 port and the other to the communication port of your PC. With the monitoring software installed, you can schedule Solar Inverter shutdown/start-up and monitor Solar Inverter status through.

HMPPT

Solarix MP Series 3/5 kVA solar inverters have built-in 80A HMPPT charger.

Configure AC/Solar Charger priority

Configurable AC/Solar Charger priority via LCD setting

Configurable battery charging current

Configurable battery charging current based on applications via LCD setting

Generator Function

Capability to generator power.



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 SOLAR INVERTER

Product Overview (3-5MH80)



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MODEL	Solarix - 3 MH 80	Solarix - 5 MH 80
Capacity(VA/W)	3000VA/3000W	5000VA/5000W
INPUT (Line Mode)		
Nominal Voltage	230VAC	
Voltage Range	170-280Vac±7V (UPS) / 90-280Vac±7V (Appliances)	
Return Voltage Range	180-270Vac±7V (UPS) / 100-270Vac±7V (Appliances)	
Max AC Voltage	300Vac	
Nominal Frequency	50Hz / 60Hz (Auto detection)	
Frequency Range	40±1Hz - 65±1Hz	
Frequency Return Range	42±1Hz - 63±1Hz	
Voltage Waveform	Sinusoidal (utility or generator)	
INPUT (Inv Mode)		
Capacity(VA/W)	3000VA/2400W	5000VA/4000W
Nominal DC Input Voltage	24Vdc	48Vdc
Cold Start Voltage	23Vdc	46Vdc
Low DC Cut-off Voltage	@ load < 50 %	21.5Vdc
	@ load ≥ 50 %	21.0Vdc
High DC Cut-off Voltage	33Vdc	63Vdc
No Load Power Consumption	<35W	
BATTERY		
Charging Algorithm	3 Step	
AC Charging Current (Max)	100A	
Floating Charging Voltage	27Vdc	54Vdc
OUTPUT		
Voltage Regulation	230Vac±5%	
Frequency	50Hz	
Overload Protection (Inv Mode)	5s@≥130% load; 10s@105%~130% load	
Efficiency (Inv Mode)	Up to 93%	
Efficiency (Line Mode)	>95% (Rated R load, battery full charged)	
Transfer Time	10ms typical (UPS); 20ms typical (Appliances)	
Surge Capacity	2 x rated power for 5 seconds	
Short Circuit Protection	Circuit Breaker	
SYSTEM FEATURES		
Communication	USB/RS232	
MPPT SOLAR CHARGE		
Max. PV Array Open Circuit Voltage	500Vdc	
Max PV Panel Power	400W	5000W
Nominal PV Voltage	240Vdc	320Vdc
Start-up Voltage	150Vdc ±10Vdc	
PV Array MPPT Voltage Range	120~450Vdc	
Max Charging Current (AC charger plus solar charger)	100A	
ENVIRONMENTAL		
Operating Temperature Range	-10°C to 50°C	
Storage temperature	-15°C~ 60°C	
Humidity	5% to 95% Relative Humidity (Non-condensing)	
DIMENSIONS & WEIGHT		
W x D x H (mm)	300 x 100 x 440	
Weight (kg)	9	10
STANDARDS		
Safety Certification	CE	