

tuncmatik

Solarix MHPLUS Series

3/5 kW

SOLAR INVERTER



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 it charges the battery with the 3-step battery charging algorithm, it extends the battery life, reduces your operating costs and provides 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.

Dry contact

The dry contact alarms can adjust from the front panel. It could be used to deliver signal to external device as scada when battery voltage reaches warning level.

BMS(Battery management System) Features

Thanks to this feature, which is a kind of battery safety system, it is ensured that the batteries are kept in safe conditions. Thanks to this system, which controls and manages battery packs consisting of one or more cells during charging and discharging, the lifespan of your batteries is extended. Thanks to this feature, you can charge Lithium batteries with Forte series inverters.

HMPPT

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

Configure AC/Solar Charger priority

Configurable AC/Solar Charger priority via LCD settings.

Bluetooth communication

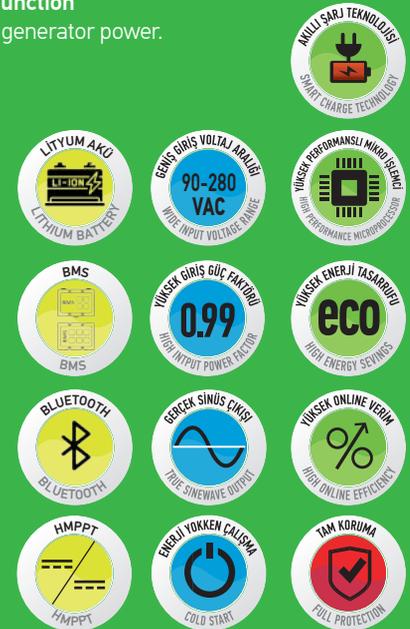
Solarix MHPLUS Series solar inverter can be controlled by our special program that you can download to your android and IOS phones thanks to its bluetooth feature.

Configurable battery charging current

Configurable battery charging current based on applications via LCD setting

Generator Function

Capability to generator power.



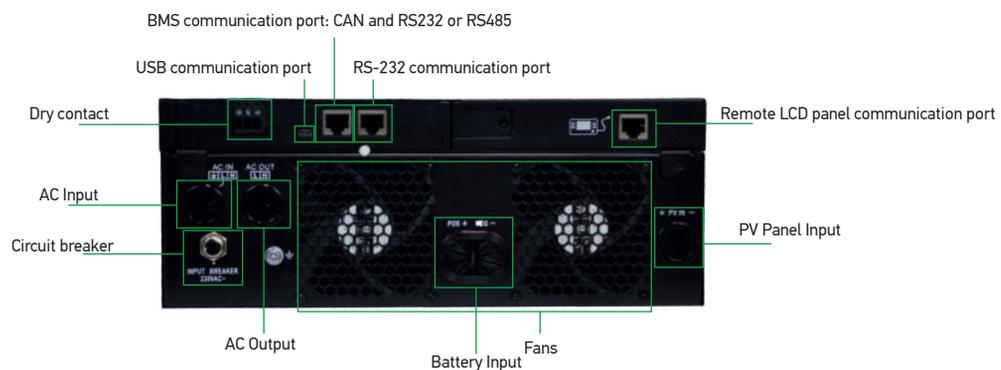
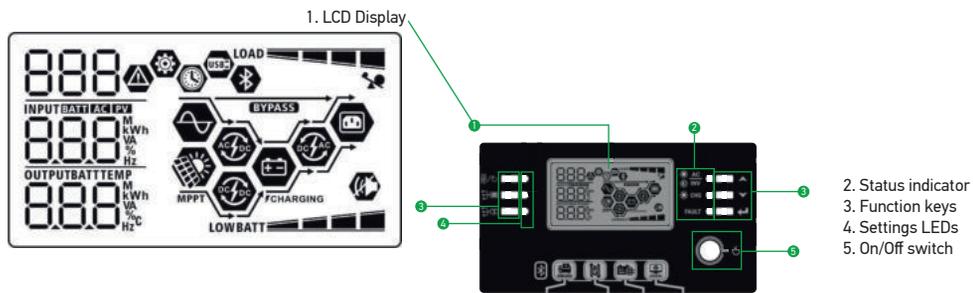
tuncmatik

Solarix MHPLUS Series

3/5 kW

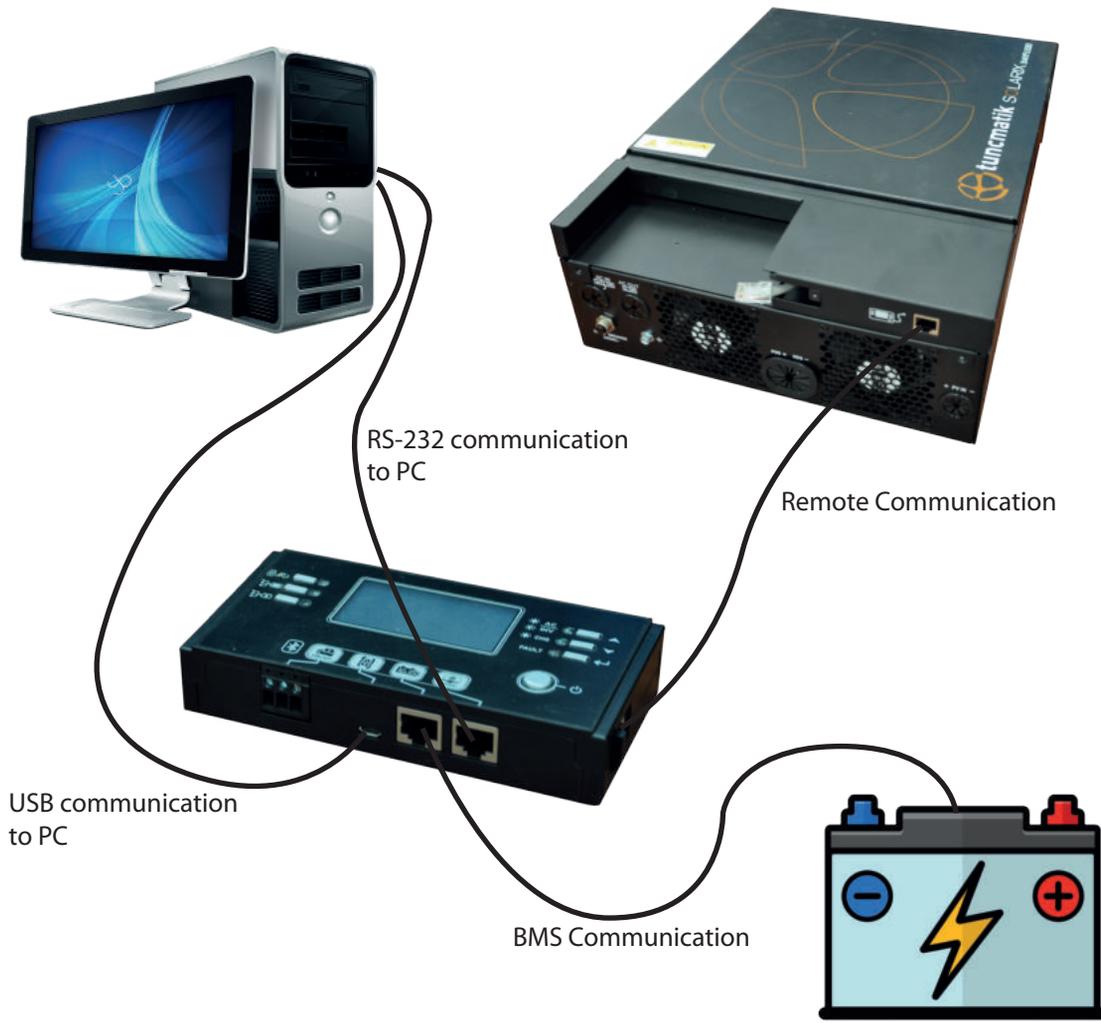
SOLAR INVERTER

Product Overview (3-5MHPLUS80)

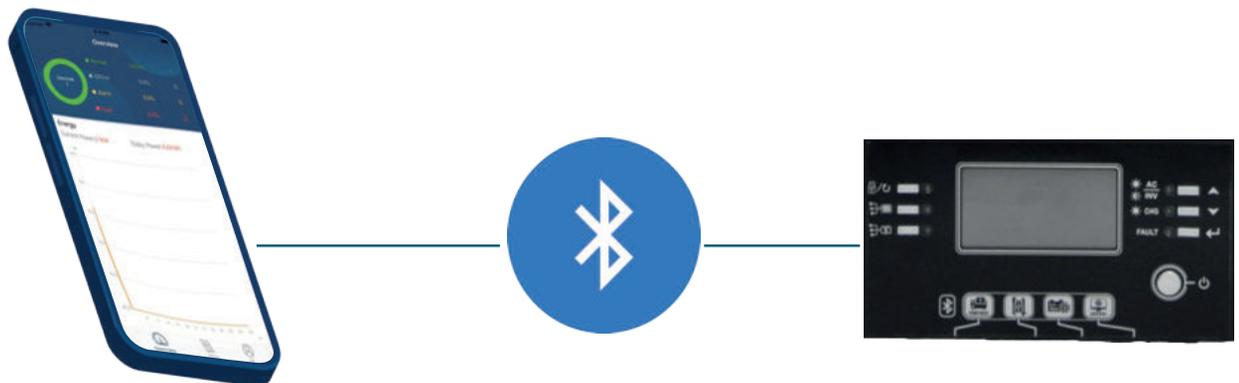


tuncmatik Solarix MHPLUS Series 3/5 kW SOLAR INVERTER

BMS Communication & Portable Control Unit



Bluetooth Communication



tuncmatik
Solarix MHPLUS Series
 3/5 kW
 SOLAR INVERTER



MODEL	Solarix - 3 MH Plus 80	Solarix - 5 MP Plus 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)		
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	<50W
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/Dry Contacts/Bluetooth(Android and iOS)/BMS Communication(CAN,RS232 or RS485)/Portable Control Unit	
MPPT SOLAR CHARGE		
Max. PV Array Open Circuit Voltage	500Vdc	
Max PV Panel Power	4000W	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 115 x 400	
Weight	9	10
STANDARDS		
Safety Certification	CE	