

MULTI-OPERATION MODE



- ✔ Pure Sine Wave solar inverter with up-to 93% peak efficiency
- ✔ 4.3" large coloured LCD Display with touch buttons & customizable LED Ring with RGB lights
- ✔ Setting Timer available for load priority & battery charging
- ✔ Built in Wi-Fi monitoring via mobile app
- ✔ Communication port for BMS - RS485
- ✔ Inbuilt kWh Meter
- ✔ Can be used without batteries & compatible with Lead Acid, Lithium-Ion and LiFePO4 Batteries
- ✔ Connect up-to 9 inverters in parallel in single phase & three phase



Direct Power from Solar

FlinMarvel allows you to choose on how to power your loads: Either share loads between solar & utility or share loads between solar & battery. Intelligent system allows you to power load directly from solar power during the day time keeping grid and/or battery power only for back-up. Wide MPPT range (120 ~ 430 VDC) of the built-in solar charge controller offers more flexibility to the users and reduces installation costs.

Battery Compatibility



FlinMarvel is next generation ready. It can be used with or without batteries. It is compatible with Lead Acid, Lithium-Ion and LiFePO4 Batteries. With existing BMS port and multiple options available for lithium-ion batteries, you can pick a lithium bank from a wide variety.

Customizable Display with RGB LED Ring



FlinMarvel comes with big 4.3" LCD display with touch buttons. It offers three effects for lighting and multiple settings to custom set the RGB lights as per user. FlinMarvel is designed to offer great flexibility in user operation. The touch buttons on the display allow you to customize more than 30 settings. LED ring lights-up in different colours to depict the operation mode, energy source, battery capacity and load level.

Timer for Load Priority and Battery Charging



FlinMarvel gives you the option to select the mode you wish to run the loads and charge batteries during different times of the day. You get to select the specific hours when you wish the inverter to run in SUB and other modes to power your load or charge batteries and automatically the inverter will do that.

Specifications of FlinMarvel MPPT Solar Inverter



WiFi



RGB Ring



Timer



Modular

MODELS	5.6 kW-48V
RATED POWER	5600 VA / 5600 W
Parallel Capability	Yes, up to 9 units

INPUT	
Voltage	230 VAC
Selectable Voltage Range	170-280 VAC (For UPS Mode); 90-280 VAC (For Appliance Mode)
Frequency Range	50 Hz/60 Hz (Auto sensing)

OUTPUT	
AC Voltage Regulation (Batt. Mode)	230 VAC ± 5%
Surge Power (for 5 seconds)	11200 VA
Efficiency (Peak)	93%
Transfer Time	10 ms (For UPS Mode); 20 ms (For Appliance Mode)
Waveform	Pure Sine Wave
No Load Power Consumption	< 50 W

BATTERY & AC CHARGER	
Battery Voltage	48 VDC
Floating Charge Voltage	54 VDC
Overcharge Protection	66 VDC
Maximum Solar Charging Current	120 A
Maximum AC Charging Current	120 A

SOLAR CHARGE CONTROLLER	
Solar Charger Type	MPPT
Maximum PV Array Power	6000 W
Maximum PV Input Current	27A
MPPT Voltage Range	120 - 430 VDC
Max PV Open Circuit Voltage	450 VDC

PHYSICAL & COMMUNICATION	
Dimension	140 x 295 x 468 mm (D x W x H)
Net Weight (kgs)	12 kgs
Communication	RS232/Dry-Contact/WiFi

OPERATING ENVIRONMENT	
Humidity	5% to 95% Relative Humidity (Non-condensing)
Operating Temperature	-10°C - 50°C
Storage Temperature	-15°C - 60°C

*Product specifications are subject to change without further notice