Fortuner®

36 YEARS OF LEADERSHIP IN TECHNOLOGY

PROUDLY MADE IN INDIA


**36+** YEARS OF TRUST
COUNTRY PRESENCE
GLOBAL OEM BRANDS MANUFACTURER

# EMPOWERING A GREENER TOMORROW

THE COMPANY WITH OVER FOUR DECADES
OF MANUFACTURING EXPERTISE AND INNOVATION

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# MPPT SOLAR (Off Grid) UPS/INVERTER

FORTUNER Solar UPS/ INVERTER with inbuilt MPPT (Maximum Power Point Tracking) Solar charger is specially designed for maximum utilization of Solar Power. High efficiency MPPT charger design ensure 20 - 30 % more solar energy harvest by using this Inverter as compared to other topology Inverters with the same capacity of panel array. Wide Solar input voltage range makes our inverters compatible with all solar panels without limiting their Vmp.

FORTUNER MPPT inverter have dual LCD display which shows inverter and solar charger parameters separately. Real time solar parameters can be monitored in a single view. We are providing flexible parameters setting features in our Inverters. Users can set all parameters according to their requirements. All Single Phase and Three Phase Solar MPPT UPS have selectable HYBRID/ PCU function, which ensure maximum utilization of solar power according to user requirements.

Battery type selection (SMF/ TUBULAR) feature make our inverter compatible with any Battery. This function enhances the battery life and backup.


- Increases the output by 30% with MPPT technology
- TUBULAR / SMF, to Enhance the battery Life & Backup
- User can set Solar Power Utilization (HYBRID / PCU mode) according to the requirement.
- Intelligent Power full Grid Charging for speedy Charging of Batteries.
- Extra Power & longer backup with the same Battery as completed to other low efficiency inverter.
- Unique onsite parameter setting features provide the flexibility to change the UPS /INVERTER operating Parameters as per site conditions.
- LCD Display displays all Inverter parameters like: Battery & Mains Input and Output, Charging Current & Load Power parameters, which makes our inverters very user friendly.
- Sine wave Inverters gives the same current which you get from power grid, in comparison to square wave inverters. Pure Sine Wave protects and gives longer life to all Home appliances and sensitive Electronic devices.
- Durable Design to sustain all type of Power fluctuations and fully protect the connected equipments.
- No Need to use additional UPS for Computers. User can select UPS or INVERTER mode operation as per requirement.

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# TECHNICAL SPECIFICATIONS

| Model | MPPT FR700S | MPPT FR1000S | MPPT FR1200S | MPPT FR1700S FR2200S | MPPT FR3500S FR5000S | MPPT FR5000S,FR6000S FR7500S | MPPT FR10000S |
|---|---|---|---|---|---|---|---|
| Series | Fusion MPPT | | | | Platinum MPPT | | EF MPPT |
| Battery Voltage | 12V | | | 24V | 48V | 96V | 120V |
| Technology | DSP Based Full Bridge with MPPT Technology | | | | | | |
| Input/ Output Phase | Single Phase | | | | | | |
| Power Device | MOSFET | | | | | | IGBT |
| **INVERTER/ UPS** | | | | | | | |
| Output Voltage on Inverter Mode | 220 ± 5% | | | | | | |
| Output Frequency on Inverter Mode | 50Hz ± 0.5Hz | | | | | | |
| Changeover Time on Ups Mode | < 10ms | | | | | | |
| Change over Time on Normal Mode | < 30ms | | | | | | |
| Change over Mains to UPS and UPS to Mains | Automatic | | | | | | |
| Output Waveform on Backup Mode | Pure Sine Wave | | | | | | |
| THD | < 3% | | | | | | |
| Charger | Solar + Grid with Solar Priority* | | | | | | |
| Inverter Overload | > 100% | | | | | | |
| Surge Load Capacity | 300% | | | | | | |
| Input Voltage (UPS) | 180V-260V | | | | | | |
| Input Voltage (INV.) | 100V-290V | | | | | | |
| Output Voltage on Mains Mode | Same as Input | | | | | | |
| Output Frequency on Mains Mode | Same as Input | | | | | | |
| **SOLAR CHARGER** | | | | | | | |
| Topology | MPPT | | | | | | |
| Maximum Connected Panel Array Power (W) | 300 | | 1500/2000 | 3500/5000 | 5000/6000 | 7500 | 10000 |
| Maximum Connected Panel Array Voc. (V) | 35 | | 50 | 120 | 250 | 300 | 400 |
| Recommended Panel Array Vmp. (V) | 18-30 | | 30-36 | 62-108 | 120-144 | 120-144 | 270-360 |
| **PROTECTIONS AND INDICATIONS** | | | | | | | |
| At Respective Status/Fault Conditions | Alpha Numeric Dual LCD and LED Indications | | | Alpha Numeric LCD Display | | | |
| Parameters LCD Inverter UPS | Output Power (Watt), Mains Input Voltage, Output Voltage, Temperature (Deg. C), Battery Voltage, Charging Current, Charging mode | | | | | | |
| Parameters LCD MPPT | Solar Panel Input Voltage (VP), Solar Panel Input Current (IP), Battery Voltage (VB), Battery Current (IB) KWH, Total KWH | | | | | | |
| Protections and Buzzer Indications | Low Battery, Overload, Short Circuit, Over Temperature, Solar Panel Reverse | | | | | | |

## Applications

Telecom | UPS | Emergency Lighting | Security | Utility | Railways | Photovoltaic | Universal