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The Erevsyn Solar Hybrid System (HySolar) is an integrated power system consisting of a solar charge controller and a high frequency switchmode grid battery charger. HySolar gives the priority to solar energy over the grid in supplying the required power for charging the battery and supporting the load.

In order to maximize the power that can be extracted from the solar modules, HySolar utilizes Maximum Power Point Tracking (MPPT) algorithm in the charge controller. It provides a temperature compensated 3-stage charging profile (bulk, absorption and float) in order to properly charge the battery and to lengthen the life of it.

HySolar can be configured to accommodate multiple sizes of batteries in a 12V or a 24V arrangement. The system is equipped with LED status indicators and a USB port for data logging capabilities.

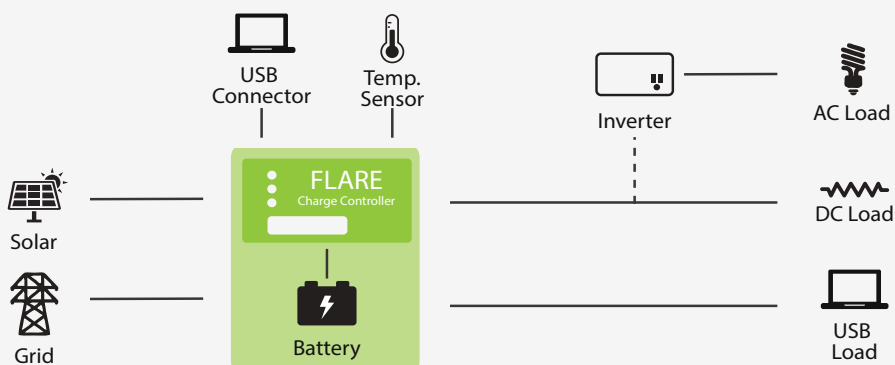
Protection

HySolar is built in a NEMA 3R enclosure which is weather proof against outdoor's installations harsh conditions.

This rugged design provides safe operation and protection against faults on the solar panels, battery and load terminals.

Standard Features

- Hybrid Input – Solar and Grid
- MPPT Solar Algorithm Charging
- Intelligent Micro Controller
- High Efficiency
- Input/Output Breakers
- 3 Stage Charge Profile
- Temperature Compensation
- Light Weight
- Status LED Indicators
- NEMA 3R Enclosure
- USB Connection
- Temperature Sensor
- Lightning and Surge Protection
- Solar/Battery Reverse Polarity Protection
- Overload and Short Circuit Protection
- Reverse Current Flow From Battery to Solar Module Protection
- Low Voltage Load Disconnect (LVLD)



Technical Specifications

	HySolar Model	12 V 24 V
Input	Solar	Panel Open Circuit Voltage (Voc) MPPT Volt (Vmp) Max. Panel Power (Watt)
	AC Mains	AC Input Voltage Input Frequency Max. Power
Output	Battery	Bulk / Absorption / Float Battery Charging Voltage Battery Charging Current (Max) Ripple Voltage Temperature Compensation
	Load	Load Voltage Max. Load Current
	USB Port	Voltage Current
Storage	Battery Bank	12 AH (12 V) Battery 18 AH (12 V) Battery 26 AH (12 V) Battery 35 AH (12 V) Battery
Monitoring	LCD Display	Solar Battery Load Mains
	Data Logging	Port
Load	Terminals	LVD / LVR HVD / HVR
System	Mechanical / Environmental	Enclosure Protection Operating Temperature Dimensions Mounting

Protection

Solar and Load
Overload
Short-Circuit
High Voltage
Reverse Polarity
Battery
High Voltage
Reverse Polarity

Other
Reverse Current at Night
Lightning & Transient Surge Protection
LVLD (Low Voltage Load Disconnect)
LVLR (Low Voltage Load Reconnect)

LCD

Solar Battery
Mains Load

LEDs

LED 1 - Battery Low
LED 2 - Battery Charging

Terminals

Solar
Battery
Load
USB Connector



USB Diagnostics Parameters

Solar Charger Status
Mains Charger Status
Solar Voltage
Mains Voltage
Battery Voltage
Charging Current
Charge Mode: Bulk, Absorption, Float
State of Charge (SOC)
Load On / Off
Load Current
Fault Indication

Ordering Specification

When ordering, please specify

Model Number
DC Volts
Batt. AH

