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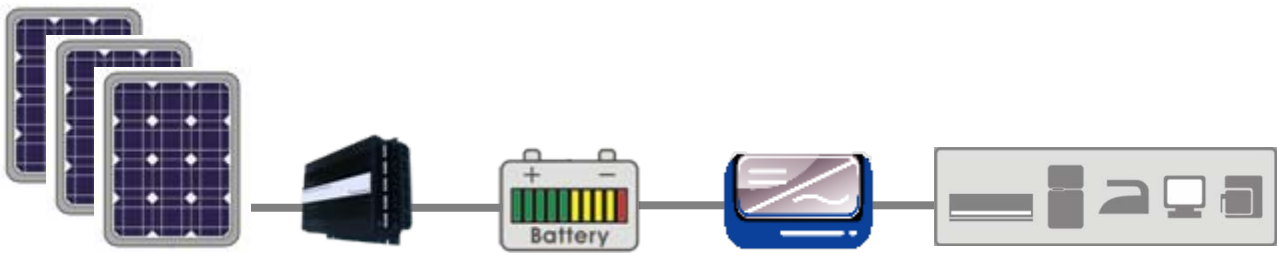
HOMERAY Optitronics

GS MPPT CHARGER

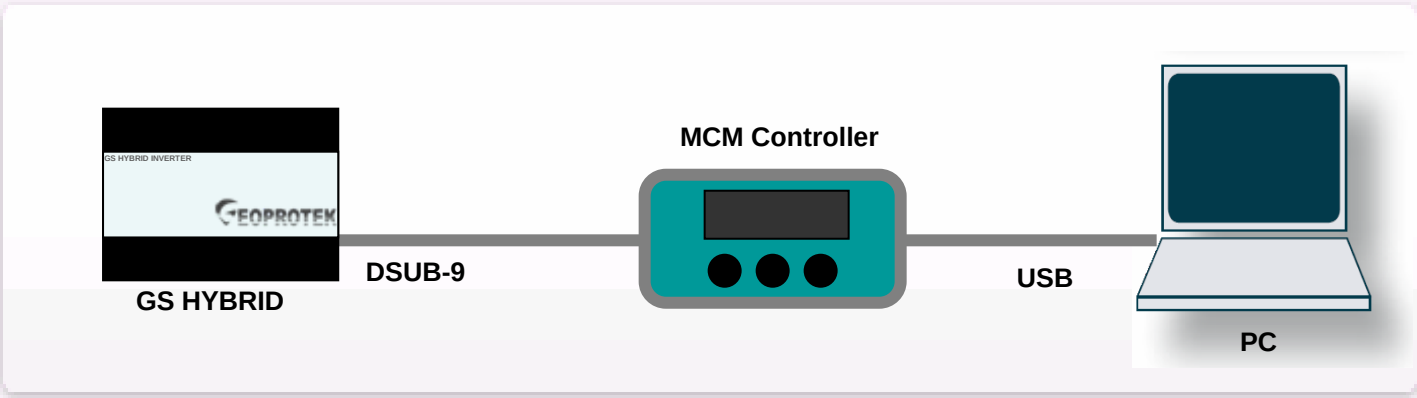
96% High Efficiency, Auto-Selected Charging Voltage for 12V/24V/48V Battery System

GS MPPT SOLAR CHARGE CONTROLLER is designed to automatically charge 12V, 24V, and 48V sealed and vented lead acid batteries from silicon based PV panels such as mono-crystalline, polycrystalline and thin film. It has a build in Load Low Voltage Disconnect configurable as a Down to Dust switching. It can be connected to a PC for monitoring the full system parameters. It is a high quality product that offers the best price/ performance ratio in the industry.



Monitoring Software (Only for GSMPPT-1700/3400)

Connection Diagram:



Software Features:

Monitoring the following value of GS MPPT:

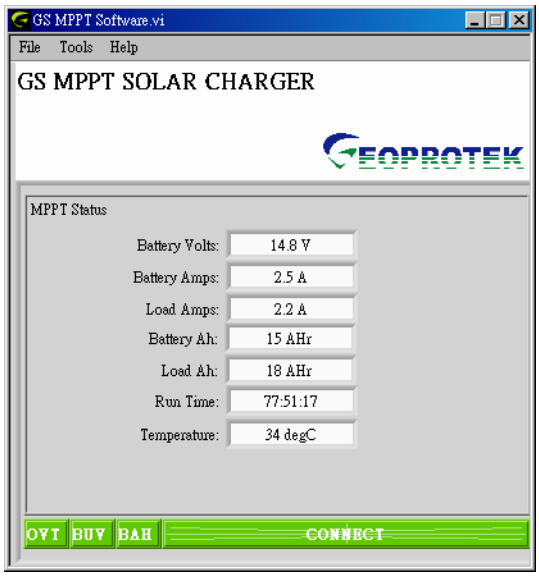
-Battery Volts: Detected battery voltage

-Battery Amps: Current charging to the battery

-Load Amps: Current feed to the load

-Run Time: Operating period

-Temperature: The internal temperature in GS MPPT Charger



Alarm Setting:

-Enable Over Temperature alarm When MPPT Temperature is above

-Enable Battery Under Voltage Alarm when Battery Voltage is below

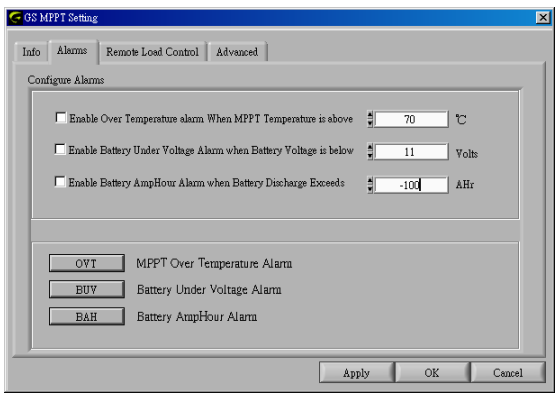
-Enable Battery AmpHour Alarm when Battery Discharge Exceeds

RLC Setting:

-Low Voltage Disconnect: Once the detected battery voltage is low, it will cut the load off automatically. You can setup the cut off voltage level by yourself. You can set from 8 to 53V.

-Dawn-to-Dusk: You can set up how long you want to cut off the load after the GSMPPT charter can not detect the solar input. You can set from 1~16 hours.

-Manual: You can turn on the load or cut off the load manually.



Data recording:

-Record periodically for the monitoring value

Specification:

	GSMPPT-200	GSMPPT-1700	GSMPPT-3400
Solar Input Voltage (MPPT Tracking Voltage)	15.5 to 55V	15.5 to 95V	15.5 to 95V
Maximum Efficiency	96%	96%	96%
Input Battery Voltage	12VDC/24VDC	12VDC/24VDC/48VDC	12VDC/24VDC/48VDC
Output Voltage	14.5VDC/29VDC	13.5VDC/27VDC/54VDC	13.5VDC/27VDC/54VDC
Maximum Output Power	150W@14.4V 200W@29V	1700W/30A	3400W/60A
Thermal Protection	Multi-level Type	Multi-level Type	Multi-level Type
Solar Short Circuit and Surge Protection	Yes	Yes	Yes
Communication Interface		MCM(DSub9)	MCM(DSub9)
Dimension (mm):	130(L)*75(W)*35(H)	235(L)*180(W)*70(H)	335(L)*180(W)*70(H)
Weight (kg):	0.3	2.25	3.2
Alarm LED	Yes	Yes	Yes
Dawn to Dust or LVD	Yes	Yes	Yes
Warranty	2 years	2 years	2 years