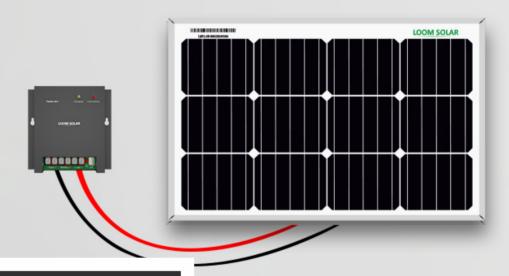
# LOOM SOLAR





SOLAR
CHARGE
CONTROLLER

### **Solar Charge Controller**

Loom Solar has been Manufacturing Solar Charge Controller. Loom Solar Charge Controller is an advanced micro controller unit based PMW technology. The Charging Processing has been optimized for longer battery life and improve system Efficiency.



### **Solar Charge Controller**

10 amp - 40 amp

### **Applications**



**Street Light** 



**Battery Charging** 

# Fusion 1012

➤ A Lithium Battery Charge Controller.







	5 : 4040	
Model / Make	Fusion-1012	
Charge Controller Type	MCU based PWM Controlled Charging	
Charging Type	CC-CV (buck charging)	
BMS Integeration	Compatible with BMS of LiFePo4 Battery	
Charge Controller Rating	PV Input Voltage 18-60V Battery 12.8 / 10A	
Charging Current Rate at 12.8V	10A	
Efficiency Overall	>90% Solar Charge controller >85% (Total Electronic Efficiency)	
Temperature Compensation	3mV / Degree C	
Indication	Battery Charging- Yellow LED blinking Low Battery – Red LED on Battery Full Charged – Yellow LED stable Reverse Connection, Error – Red LED on	
Corrosion Protection	Electronic circuit protected with conformal coating (Protection against moisture, dust, chemicals, and temperature exteremes)	
Acoustic Noise	Less than 35 dB at a distance of 1 meter	
Protections	<ul> <li>Solar Battery Reserved Protection</li> <li>Reserve Current From Battery at night (blocking diode)</li> <li>No loads auto cut off (Battery saver mode)</li> <li>Miswiring / Reverse Polarity Protection (Fuse)</li> <li>Transient / Surge</li> <li>Over Charging</li> <li>Deep Discharge</li> <li>Overload-Auto Shutdown And Restart</li> </ul>	
Idle Current (Self Consumption)	<10mA	
Voltage Drop Battery-Use	<2%	
Battery Voltage Settings	High Volatge Cut Off - 14.6Volt Battery Low Disconnect - 11.6Volt Load Reconnect - 12.8Volt	

## Fusion 1024 / 2024

➤ A Lead Acid Battery Charge Controller.







Technical Specification	Fusion 1024	Fusion 2024
Battery Voltage Nominal	12V / 24V	
Battery Selection	12V and 24V Auto-selection	
Charging Current	10A Max.	20A Max.
PV Rating Max.	300W Max.(24V Battery)	600W Max.(24V Battery)
PV OCV Max.	60V	
Efficiency	≥ 96%	
Idle Current	≤ 20mA	
DC Load Output Rating	10A Max.	
Battery Absorption Charge Voltage	14.2V Single Battery / 28.4V Double Battery ± 0.2V	
Battery Float Charge Voltage Battery ± 0.2V	13.5V Single Battery / 27V	Double
Battery Low Indication Voltage Battery ± 0.2V	10.5V Single Battery / 21V Double	
Absorption Time	Upto 1 hour Based On DO	D Condition

## Fusion 4024 MPPT



Model / Make	Fusion-4024
Max. PV Array Open Circuit Voltage (Voc)	12V (100V Voc) , 24V (160V Voc)
Max. PV Array (in Watts) Applicable	12V (700Wp) , 24V (1200Wp)
Nominal Battery Voltage	12V / 24V (Auto-Setting)
Maximum Charging Current	40 A (configurable)
Battery Charging stages	Bulk-Absorption-float-Equalization
Maximum tracking Efficiency	98.9%
Standby Power Consumption	< 1.5W
Overload Protection	✓
Over Charge Protection	✓
Panel Reverse Polarity Protection	<b>✓</b>
Battery Reverse Polarity Protection	Optional
Dimension (L x B x H in mm)	310 x 150 x 110
Net Weight (Kgs)	2.285 kgs
Connector	Input / Output Terminal Block
Communication	Display / UART

# LOOM SOLAR

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