

iMPPT: Solar Charge Controller

iMPPT is an integrated MPPT and battery charger for Solar Panels. iMPPT continuously hunts for the Max Power that can be extracted from the panel for the presented conditions. iMPPT is enclosed in a solid aluminum enclosure; to address harsh environment and thermal needs.



Technical Information

Control	Digital MCU
Load Current	30 Amps (based on variants)
Battery Chemistry	SMF/Tubular
Input Voltage	12 – 48 Vdc
Output Voltage	12 – 48 Vdc

Protections

Battery	Under / Over voltage
Light	Short / Open Circuit

Indications

Battery	Low / Empty
	Charging / Full

Advantages

- ✓ IESA Award Winner (Made in India)
- ✓ MPPT Algorithm for power extraction
- ✓ Multi stage charging for long battery life
- ✓ High efficiency > 9x%
- ✓ Battery Protection / Load cut off
- ✓ Easy to install and use
- ✓ LED Status Indicators
- ✓ Low Maintenance
- ✓ Life time service warranty*

Application Area

Hospitals /
Pharmacy



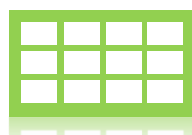
Homes



Tea Stalls



Hostels



Schools /
Colleges



Library



Hawkers



GreenTronics Design Labs India Pvt. Ltd.

#15, 1st 'B' Cross, 1st Main, Nandadeepa Layout, Rajarajeshwari Nagar, Bangalore – 560 098

Ph: +91 (80) 2860 5056 | www.gtd-labs.com | info@gtd-labs.com

Ordering Information:

Solar Charge Controller					
Sl No.	Ordering Code	Battery AH	Input PV Voltage	System Voltage	Charging Current
1	GCC-12-0C-062	100	17 – 100V _{DC}	12V _{DC}	6.25 Amps
2	GCC-12-CX-083	120	17 – 100V _{DC}	12V _{DC}	8.34 Amps
3	GCC-12-CL-125	150	17 – 100V _{DC}	12V _{DC}	12.5 Amps
4	GCC-12-CC-167	200	34 – 100V _{DC}	12V _{DC}	16.7 Amps
5	GCC-12-CC-208	200	34 – 100V _{DC}	12V _{DC}	20.8 Amps
6	GCC-12-CL-125	150	34 – 100V _{DC}	12V _{DC}	12.5 Amps
7	GCC-12-CC-167	200	34 – 100V _{DC}	12V _{DC}	16.7 Amps
8	GCC-12-CC-208	200	34 – 100V _{DC}	12V _{DC}	20.8 Amps
9	GCC-24-4C-208	400	34 – 100V _{DC}	24V _{DC}	20.8 Amps
10	GCC-24-8C-417	800	34 – 100V _{DC}	24V _{DC}	41.7 Amps
11	GCC-36-4CL-139	450	34 – 100V _{DC}	36V _{DC}	13.9 Amps
12	GCC-36-9C-278	900	34 – 100V _{DC}	12V _{DC}	27.8 Amps
13	GCC-48-4C-104	400	34 – 100V _{DC}	12V _{DC}	10.4 Amps
14	GCC-48-8C-208	800	34 – 100V _{DC}	12V _{DC}	20.8 Amps

