

REhub MPPT Eco-12/24-25		
Operating principle	High efficiency MPPT Based Solar Charger to enable addition of Solar PV to existing home inverters. Maximizes the usage of Solar	
Battery System Voltage	12V	24V
Recommended Solar module STC Wp	400W	800W
Output Current – Continuous, Max	25A	25A
PV Open Circuit Voltage (VOC)	90V	90V
PV MPPT Voltage range	17-65 V	30-75 V
Input Current PV (Max)	20 A	
Power Conversion Efficiency (typical)	95% typ	95% Typ
Full load output voltage	Same as battery voltage	
Float Mode Charge Voltage	13.5 V (Factory Configurable)	27V (Factory Configurable)
Bulk Mode Charge Voltage	14.4 V (Factory Configurable)	28.8V (Factory Configurable)
Ambient temperature range	-10°C to 60°C	
Ports	1PV -Ve input 1PV +Ve input 1Battery -Ve Input 1Battery +Ve 1 15A and 6A 3 Pin Socket 1 6A 1 Meter long wire with 3 Pin Plug 1 Mode Switch 1 Modbus port	
Display	16 X2 Backlit character LCD to display system state, Instantaneous Power and cumulative energy generated from Solar PV	
Dimension	200X120X95, IP20	
Weight	~ 2 Kgs	
Protections		
Battery Reverse polarity	Electronically protected	
PV Reverse and Short circuit	Electronically protected	
Over current protection	System shutdown, recovers with a timeout	
Over temperature protection	System shutdown, recovers with a timeout	

- a. It is possible to add more than the recommended Wp as long as the Voc limits are taken care of. What would happen is that in periods when the Solar Panels deliver power more than REhub's rated output, the output power is limited to that of the rated power. Since a typical PV Panel delivers less than the nameplate Wp rating, installing PV more than the rated power could be beneficial because then the continuous output is as per the rated value.