

# REhub PWM

## The 'Upgrade' to Solar



- **Ideal for Small PV additions to existing home Inverters**

REhub PWM makes it easy to add Solar PV to existing Inverters to extend the back up hours and to save money in the bargain. REhub PWM auto detects 12/24 V system.

Recommended panel sizes :

- 400 Wp Solar for 12V Battery Systems
- 800 Wp Solar for 24V Battery Systems

- **Prioritizes Solar - but not before ensuring that the batteries are charged**

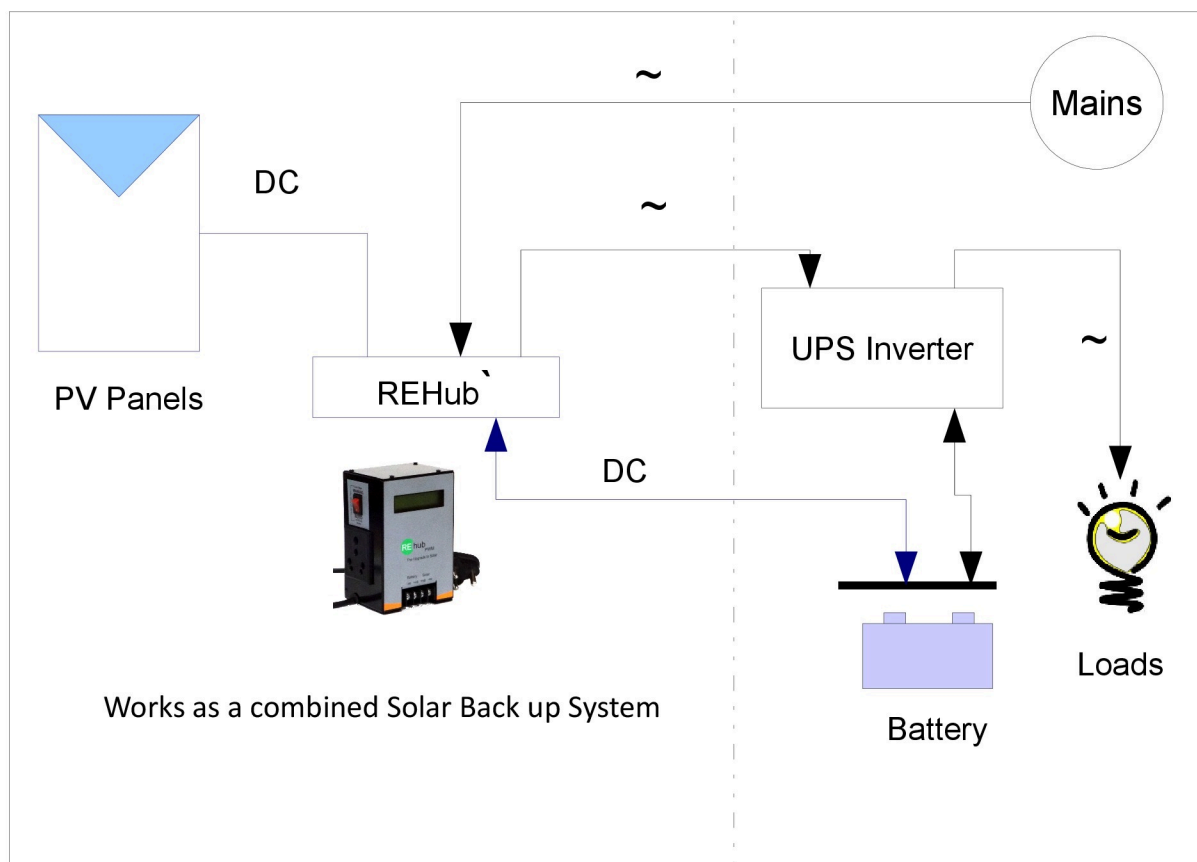
REhub PWM automatically controls the usage of Solar energy by controlling the input to the Inverter. Preference is given to keep batteries charged & minimizing cycling of batteries. REhub PWM also has a Manual Mode that allows the user to override REhub auto control when desired.

- **Display to monitor Solar performance**

REhub PWM has a scrolling display that allows the user to monitor the Solar performance, the battery charge state and keeps a record of the cumulative Solar energy generated.

- **Fully protected electronically against common faults**

REhub PWM is protected against Battery reverse polarity, PV reverse polarity and PV short, PV & Battery swap and Battery Over Voltage. Recovers once the fault is corrected.



Wiring with REhub PWM

Rehub-PWM 12/24-25		
Operating principle	Common +ve, PWM Based Solar Charger with display and Inverter control	
Battery System Voltage	12V	24V
System output Voltage configuration	Auto Detect during Power on.	
Recommended Solar module STC Wp	450 W (36 Cell Panels)	850 W (72 Cell Panels)
Output Current – Continuous, Max	Model 81 : 15A. Model 82 : 25A	
PV Open Circuit Voltage (VOC) Max	30V	45V
Bulk Mode Charge Voltage	14.1 V ( Factory Configurable)	28.2V (Factory Configurable)
Ambient temperature range	-10°C to 60°C	
Ports	1 pair of PV input separate positive and negative terminals 1 pair of Battery separate positive and negative terminals 1 230 V, 15 A Socket for Inverter input 1.4 Mtr Cable with 6 A, 230 V plug for Mains Input	
Dimension in mm	143X95X74 mm, IP20	
Weight	~ 1 Kgs	
Display	16 X 2 Character LCD, with Battery state, Solar state, Solar Unit generated, Mains supply availability, System state – displayed in a scrolling loop	
Mode selection	Auto and Manual modes	
Protections		
Battery Reverse polarity	Electronically protected	
PV reverse	Electronically protected	
Over voltage protection	Input over voltage shutdown (Limited to 60V)	
Over current protection	Current limited on output	
Over temperature protection	System shutdown, recovers with a timeout	
Battery – PV swap	Electronically protected	
PV Short Circuit	Electronically protected	
Inverter Interface specifications		
Inverter Battery Voltage	12V	24V
Maximum Inverter Rating	1kW	2kW