

# MPPT(Maximum Power Point Tracking) Solar Charge Controller

User's manual

## JUTA MPPT-10

### Model



**Feature:** The most important feature of this controller is intelligent tracking input voltage from solar panel, which could let solar panel always working at Maximum Power Point of V-A curve. Compared with normal solar charge controller, this MPPT

controller could increase 10%-30% electrical power using efficiency from solar panel.

**Function:** This MPPT controller is not only have above mentioned special function, at the same time including completely Protecting and Controlling functions:

- Overcharge Protection
- OverDischarge Protection
- Battery Reverse Current Protection
- Overloading Protection
- Short Circuit Protection
- Battery Reverse Polarity Connection Protection

**Schematic Diagram:** Picture 2 shows typical 12V battery solar charge system V-A curve. Normal Solar Charge Controller: Solar Panel works at point A state, the solar panel working voltage is a little higher than battery voltage.

Charge Voltage:  $U_b=13.2V$

Charge Current:  $I_b=9.8A$

Charge Power:  $P_b=13.2 \times 9.8=129.36w$

Area in drawing: ①+②

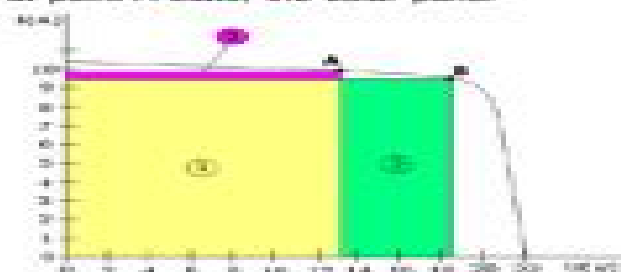
**MPPT Solar Charge Controller:** Solar Panel works at point B state, the solar panel working voltage much higher than battery voltage.

Charge Voltage:  $U_b=18.4V$

Charge Current:  $I_b=9.3A$

Charge Power:  $P_b=18.4 \times 9.3=171.12w$

Area in drawing: ③+④



# Juta Mppt 30a Manual

**AW Chickering**



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