

# Solar Charge Controller

AP2410  
AP2420

## PWM Solar Charge Controller

12/24V Auto Recognition 10A/20A



AP2410 / AP2420 is a solar charge controller with advanced Pulse Width Management (PWM) 3-phase charge technology, for small size solar stand alone power system. It is a basic and typical solar controller model, widely used all around the world, with various kinds of uses.

### Key Figures

- \*Full range of electronic protections
- \*Lead-acid AGM/GEL/Flooded & Lithium batteries supportable
- \*LCD display & key operation for parameter settings
- \*Multiple MOSFET & optimized PCBA design for better cooling effect

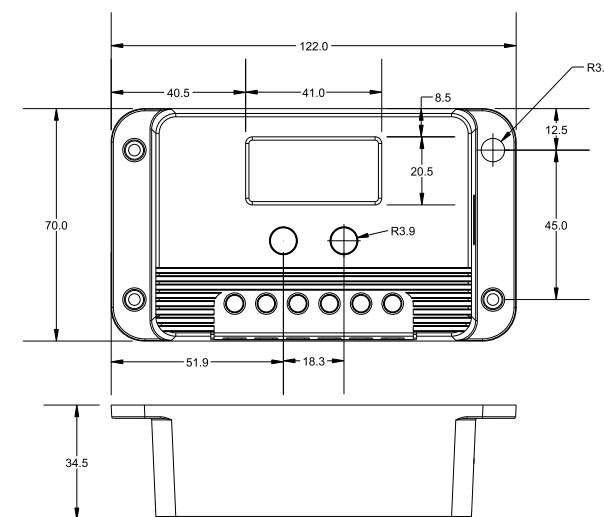
### Extensive Functions

- Li mode use for lithium battery charge & discharge
- Up to 17 kinds of DC load output control, including "dusk to dawn" & manual switch
- Extra USB 5V 1A DC output
- One more year of warranty than other similar models in the market

### Solar Charge Bag Specialist



| Controller Parameter            | Value                                        |         |                   |                  |
|---------------------------------|----------------------------------------------|---------|-------------------|------------------|
| Model No.                       | AP2410                                       |         | AP2420            |                  |
| Battery System Voltage          | 12V/24V<br>Auto (FLD/GEL/SLD)<br>Manual (Li) |         |                   |                  |
| No-load Loss                    | 12ma (12V), 10ma (24V)                       |         |                   |                  |
| Max Solar Input Voltage         | <55Voc                                       |         |                   |                  |
| Rated Solar Charge Current      | 10A                                          |         | 20A               |                  |
| Max Solar Input Power           | 170W/12V:340W/24V                            |         | 340W/12V:680W/24V |                  |
| Light Control Voltage           | 5V*n                                         |         |                   |                  |
| Light Control Delay Time        | 10s                                          |         |                   |                  |
| Max Load Output Current         | 10A                                          |         | 20A               |                  |
| USB Output                      | 5V 1A                                        |         |                   |                  |
| Operating Temperature           | -35°C ~ +45°C                                |         |                   |                  |
| IP Protection                   | IP32                                         |         |                   |                  |
| Net Weight                      | 0.20 kg                                      |         |                   |                  |
| Operating Altitude              | ≤ 3000 meters                                |         |                   |                  |
| Controller Dimension            | 139*90*34.5 mm                               |         |                   |                  |
| Battery Voltages                | Battery Parameters                           |         |                   |                  |
| Battery Types                   | FLD                                          | SEL     | GEL(default)      | LI (adjustable)  |
| Equalize Charge Voltage         | 14.8V*n                                      | 14.6V*n | -                 | -                |
| Boost Charge Voltage            | 14.6V*n                                      | 14.4V*n | 14.2V*n           | Default: 14.2V*n |
| Float Charge Voltage            | 13.8V*n                                      |         |                   | -                |
| Boost Charge Recovery Voltage   | 13.2V*n                                      |         |                   | -                |
| Over-discharge Recovery Voltage | 12.6V*n                                      |         |                   | -                |
| Over-discharge Voltage          | 11.1V*n                                      |         |                   | Default: 11.1V*n |



### Application scenarios

