

Solar
Charge
Controller

AP2410-F
AP2420-F

PWM Solar Charge Controller
Flush Mount & Flat Fixture

12/24V Auto Recognition 10A/20A



AP2410-F / AP2420-F is a solar charge controller with advanced Pulse Width Management (PWM) 3-phase charge technology, for small size solar stand alone power system. With an additional mounting bracket, we offer 2 ways of installations for this controller, flat fixture on the work desk or wall, and flush mount for system cabinet or RV/caravans.

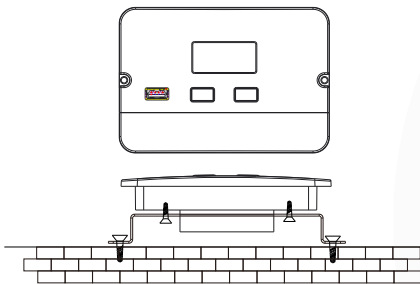
Key Figures

- *Flush mount fixture for cabinet or RV installation.
- *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

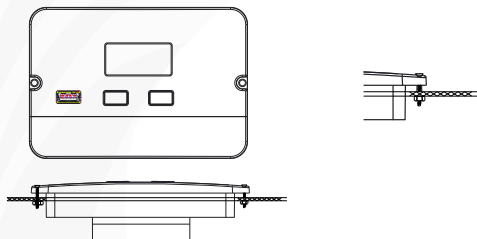
Extensive Functions:

- 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

Flat Mount with Bracket



Flush Mount



Controller Parameter	Value			
Model No.	AP2410-F		AP2420-F	
Battery System Voltage	12V/24V Auto (FLD/GEL/SLD) 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℃ ~ +45℃			
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
Accessory List	Package Status			
Extra Mounting Bracket	Yes			
User Manual	Yes			

Application scenarios

