

AP-Series

MPPT Solar Charger Controller

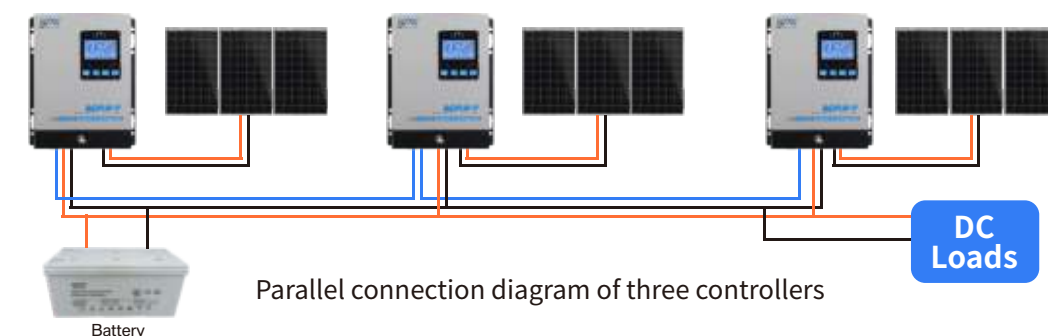


The AP Series is a type of dc to dc charge controller with electronic protection and adaptive charging functions. It continuously adjusts the electrical load to ensure that solar panels operate at their maximum power point (MPP), thereby improving the efficiency of the sola renergy system. Therefore, we also refer to it as an MPPT solar charge regulator.

FEATURES

-  Rated current 20A - 120A.
-  Three-stage charging for battery health.
-  Clear display for real-time system monitoring.
-  MPPT technology for maximum solar power harvest.
-  Ultra-high charging efficiency up to >99%.
-  Compatible with LiFePO4 batteries.
-  WiFi remote monitoring (optional).

PRODUCT CONNECTION DIAGRAM



Model	AP-20	AP-30	AP-40	AP-50	AP-60	AP-80	AP-100	AP-120
Rated Current	20A	30A	40A	50A	60A	80A	100A	120A
Maximum Charging Current	22A	32A	42A	52A	62A	82A	102A	122A

Mppt Range Operating Voltage

12VDC	18VDC~80VDC							
24VDC	30VDC~100VDC							
36VDC	40VDC~100VDC							
48VDC	60VDC~150VDC							
96VDC	Not Available				120VDC~200VDC			

Maximum Pv Array Power

12VDC	280W	420W	570W	700W	900W	1140W	1400W	1800W
24VDC	550W	840W	1130W	1400W	1700W	2260W	2800W	3400W
36VDC	840W	1260W	1710W	2100W	2700W	3420W	4200W	5400W
48VDC	1100W	1650W	2270W	2800W	3400W	4540W	5600W	6800W
96VDC	Not Available				7200W	9120W	11200W	14400W

Battery

Supportable Battery Type	Gel/SLA/AGM/Water/Lithium(lifepo4) battery							
Charging Mode	Three Stages: Constant Current(mppt),equalizing Charge, Floating Charge							
Maximum Efficiency	≥99%							

Communication Portal

Communication	RS485, available for wifi box & external control screen							
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Physical

Dimension, D*W*H(MM)	290*250*160	365*290*160	573*365*195
G.W.(KGS)	3.5KGS	4.5KGS	13KGS