



target solar company

MPPT Solar Charge Controller

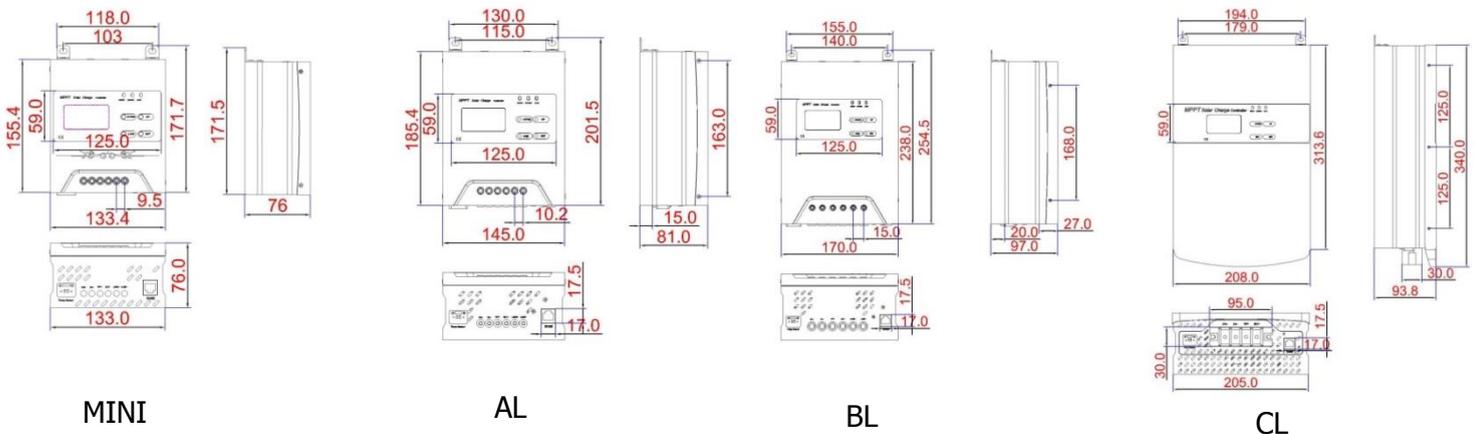


Product features

- Advanced multiphase synchronous rectification technology also has high conversion efficiency in low power charging environment.
- Using common negative circuit design to make the system work more stable and reliable
- Advanced MPPT maximum power point tracking technology, and tracing efficiency not less than 99.5%. Compared to common PWM algorithm, it achieves 15% -20% more efficiency.
- Using high quality imported components and advanced power conversion circuit, the maximum conversion efficiency can reach more than 98%; full-load efficiency can reach 97%.
- Aluminum metal for structure, MPPT Solar charge Controller series can be used in all kinds of harsh conditions.
- A variety of tracking algorithms can be combined to quickly track the maximum power point.
- Dual wave and multiple wave tracking technology, when the panels are in partial shade or when a single panel is damaged, MPPT Solar charge Controller series can still track the maximum power point accurately.
- Four sections of charging ways: MPPT charge-equalizing charge-improving char-floating charge.
- 12/24/48V automatic identification function.
- With current-limiting charging mode, when the input power of the photovoltaic panels is too large, the charging current exceeds the rated current of the controller, The controller will limit the charging current to the rated current charge.
- With internal temperature detection function, when the controller temperature rises to 70 degrees, the controller will limit the charging current to half of the rated current. When the temperature reaches 90 degrees, the controller will shut down of charging and output to control the temperature
- RS485 communication, can provide communication protocol, convenient for customers to integrate management and secondary development.(optional)
- Though the RS485 communication host computer, controller support WIFI module and GPS module to expand and implement APP cloud monitoring. (optional)
- The battery temperature compensation function.
- With a wide range of operating voltage of PV(12V system, photovoltaic panel voltage can be up to 100V, 24Vand 48V maximum voltage can reach 150V).
- With over charge, over discharge, over temperature, over load and reverse connection protection functions

System parameters

parameter name	Parameter value (and adjustable range)															
MODEL	MPPT-MINI			MPPT-AL			MPPT-BL					MPPT-CL				
Current rating (A)	10	20	30	30	40	50	30	40	50	60	70	50	60	80	100	120
Maximum charging current (A)	10	20	30	30	40	50	30	40	50	60	70	50	60	80	100	120
PV maximum input power (12V) (W)	150	250	400	400	500	600	400	500	600	750	850	600	750	1000	1200	1450
PV maximum input power (24V) (W)	300	500	800	800	1000	1200	800	1000	1200	1500	1700	1200	1500	2000	2400	2900
PV maximum input power (48V) (W)	600	1000	1600	1600	2000	2400	1600	2000	2400	3000	3400	2400	3000	4000	4800	5500
Output maximum current A	10	15	15	15	20	25	15	20	25	30	35	--	--	--	--	--
System identification voltage range v	12V battery system						DC9V-DC16V									
	24V battery system						DC18V-DC32V									
	48V battery system						DC42V-DC60V									
PV panel open circuit input voltage range v	20V ~ 100V(12V battery system)															
	40V ~ 145V(24V battery system)															
	80V ~ 145V(48V battery system)															
	120V ~ 250V (96V battery system)															
MPPT efficiency	> 99.5%															
Conversion efficiency	> 98%															
Operating mode	The default is the household mode 24H															



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