

50A DC-DC

Lithium Battery Alternator
Charger with MPPT

50A

Rated Charging Current

45A

Max PV Input Current

17 - 36 VDC

MPPT Voltage Range

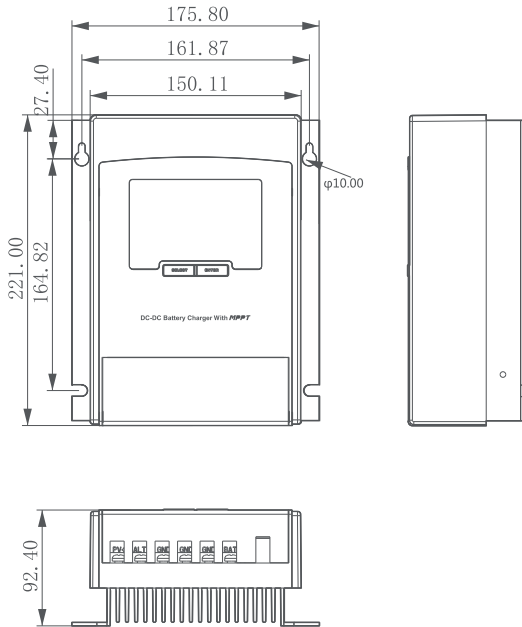
55 VDC

Max. Voltage of Open Circuit

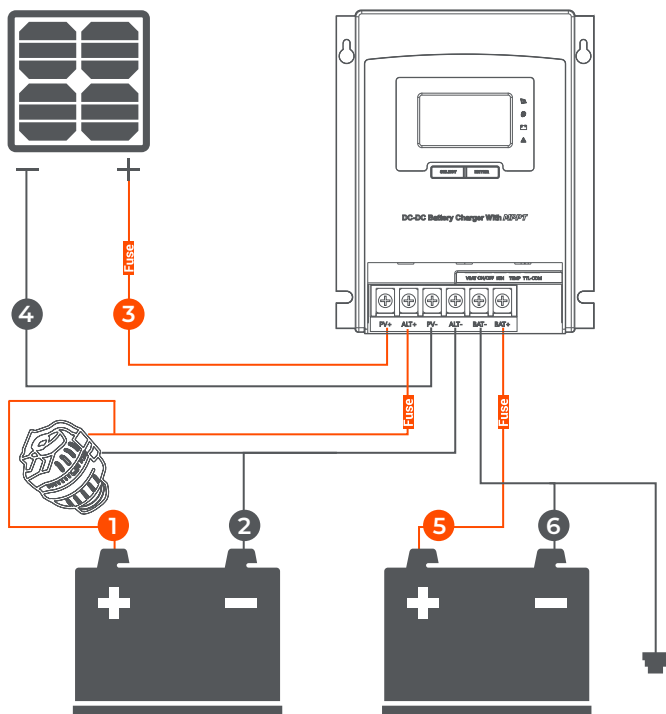


FEATURES

-  Supports TTL communication.
-  Compatible with various deep cycle battery options: Sealed, Gel, Flooded, and Lithium.
-  Innovative MPPT technology with high tracking efficiency up to 99% and peak conversion efficiency of 98%.
-  Extensive electronic protections.
-  Battery temperature compensation feature.
-  With a variety of charging modes.
-  Support external remote switch to control charging
-  Die-cast aluminum design allows for efficient heat dissipation.
-  Support a wide variety of alternator (automobile) such as intelligent generator and conventional alternator(automobile), and automatically identify alternator(automobile) types through ignition signals
-  Rated charging current at working temperature without de-rating.
-  Built-in Bluetooth module can monitor and set parameters through mobile APP.



PRODUCT DIMENSIONS (MM)



PRODUCT CONNECTION DIAGRAM

SPECIFICATIONS

Max. Voltage of Open Circuit	55VDC
MPPT Voltage Range	17-36VDC
Max PV Input Current	45A
Max PV Input Power	800W
Rated Battery Voltage	12VDC
Battery Voltage Range	9-17VDC
Max MPPT Charging Current	50A
Max Alternator Charging Current	60A
MPPT Charging Mode	Buck
Rated Battery Voltage	12VDC
Max MPPT Charging Voltage	13.8V
Max MPPT Charging Current	$\leq 25A$
Max Alternator Input Voltage (Conventional)	13.2-16VDC
Max Alternator Input Voltage (Euro 6 Standard)	12-16VDC
Alternator Charging Mode	Buck, Boost, Buck-Boost
MPPT Tracking Efficiency	>99%
Max Charging Conversion Efficiency	98%
Embedded Interfaces	TTL, Remove Switch
Weight	4.7lb
Dimensions	8.7 x 6.9 x 3.2 inches
Protection Degree	IP32
Operating Temperature Range	-35°C~65°C (-31°F~149°F)
Safety	IEC62109
EMS	IEC61000, FCC sDoC
Rohs	YES

OUTPUT CHARACTERISTIC CURVE

