

DMP25/DMP50

DCDC+MPPT charging controller



Wide Voltage Range 14.5 - 45V



High Input Power Max 800W



95% High Conversion Efficiency



Multiple Protection Mechanisms

Overview

It features both Direct Current/Direct Current (DC/DC) and Maximum Power Point Tracking (MPPT) charging modes, with a built - in intelligent chip. During the charging process, it automatically detects the input voltage and adjusts the charger load in a timely manner. The intelligent temperature control system can detect the internal and external temperatures of the charger and the battery at any time. When abnormal temperatures occur, it automatically reduces the load to mitigate risks. Strict material selection and advanced production technology endow the product with excellent shock - proof, moisture - proof, and anti - corrosion capabilities, ensuring the product operates well in more complex working environments and continuously supplies power for RVs!

- DC/DC + Maximum Power Point Tracking (DCDC + MPPT) dual charging modes
- Built - in intelligent chip: Adjusts the charger load in real - time during charging
- Supports various batteries such as lithium batteries, lead - acid batteries, and gel batteries
- Intelligent temperature control system: Detects the internal and external temperatures of the charger and the battery at any time

DMP25/DMP50 Product Introduction

Not using "IGNITION" (not connecting to ACC)	DMP50 12V	DMP50 24V	DMP25 12V	DMP25 24V
CH3: Starter Battery (Original Vehicle Battery Input Channel) Start after charging at 25V(5 seconds later); Stop charging when the voltage is less than 24.6V±0.2V				
Voltage Range	10.5-16Vdc	21-32Vdc	10.5-16Vdc	21-32Vdc
Voltage System Identification	<17Vdc	>17Vdc	<17Vdc	>17Vdc
Normal Starting Voltage	>13.5Vdc	>26.4Vdc	>13.5Vdc	>26.4Vdc
Overvoltage Protection Point	>16V	>31.5V	>16V	>31.5V
Overvoltage Recovery Point	<16V	<31.5V	<16V	<31.5V
Undervoltage Protection Point	<13Vdc	<21Vdc	<13Vdc	<21Vdc
Undervoltage Recovery Point	>13.5Vdc	>26.4Vdc	>13.5Vdc	>26.4Vdc
CH2: Solar Array (Photovoltaic Input Channel)				
Voltage Range	14.5-45Vdc			
Undervoltage Protection Point	<14.1Vdc			
Undervoltage Recovery Point	>14.5Vdc			
Overvoltage Protection Point	>48V			
Overvoltage Recovery Point	<45V			
Maximum Power	When input is less than 23V, 500W(maximum 600W); When input is between 37.5V and 45V, it is 750W(maximum 800W).			
CH1: RV Battery (Living Battery Channel)				
Battery Type	AGM/GEL/FLOODED/LITHIUM			
Output Voltage	13.8-15.5Vdc	23-29Vdc	13.8-15.5Vdc	23-29Vdc
Overvoltage Protection	16Vdc	29Vdc	16Vdc	29Vdc
Overvoltage Recovery	15.5Vdc	28.5Vdc	15.5Vdc	28.5Vdc
Output Current	5/10/15/20/25/30/ 35/40/45/50A	5/10/15/20/25A	5/10/15/20/25/30/ 35/40/45/50A	5/10/15/20/25A
Output Power	775W	710W	775W	710W
Leakage Current	≤50mA	≤50mA	≤50mA	≤50mA
Efficiency	95%	95%	95%	95%
BTS				
Temperature Detection	If it is a non-lithium battery, set it to "nor" and disconnect the sensor.			
REMOTE				
Remote Communication	CAN			
Use "IGNITION" (connect to ACC)				
CH3: Starter battery (input channel of the original vehicle battery)				
Normal Starting Voltage	>12.5V	>24.6V	>12.5V	>24.6V
Charging Logic	If input voltage >12.5V/24.6, start charging after 5 seconds; if input voltage ≤10.5V/21V±0.1V, stop charging.			