

Product Features

- DC-DC charging equipment, suitable for charging the dual battery systems of RVs.
- Can be charged with external solar modules MPPT, and can be used with DC alternator, with a maximum charging current of 30A.
- Buck-Boost circuit design, support charging between the main battery and secondary battery (no matter how high or low the battery voltages are).
- Support 12/24V battery system, the charging priority of the two batteries can be set.
- With BVS battery voltage detection, ensure the accuracy and reliability of long-distance charging.
- Polyurethane filled inside, protection level IP45, no derating during full load operation.
- Support CAN, RS485 communication. With TFT LCD display, support Bluetooth APP connection operation.

Full-range protection







RV Use

Dual Battery Charge

Buck-Boost Charge







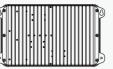
PV Input

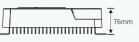
DC Input

Max Charge Current

Product dimension







Parameter	Value		
Model No.	M2430ND		
No-load Loss	25mA		
System Wiring Grounded	Negative Grounded		
Operating Temperature	-25°C~45°C		
Storage Temperature	-40°C~65°C		
Operating Altitude	≤3000m		
IP Protection	IP45		
Charging Efficiency	>98%		
Communication Port	ModBus/RS485/CAN(CAN Optional)		
Charging Derating	When the controller temperature reaches above 65°C, the step-down charging starts, and when the temperature drops to 65°C, normal charging is resumed.		
Wiring Method	Bare wire terminals (M6)		
Max Wire Cross Section Area	10mm²(7AWG)		
LED instructions	PV, BAT1, BAT2, EXT, IGN		
Operating Mode	Remote Display		
Bluetooth Connection	Built in Bluetooth on display for APP operation		
Protection	PV Over-Voltage, PV Reverse Protection, Battery Over-Charge, Battery Reverse Protection, EXT input Over-Voltage, EXT Reverse Protection, Controller		

Battery 1		Battery 2	
Battery	Main Battery (Service Battery)	Battery	Secondary Battery (Starter Battery)
Battery System Voltage	12/24V	Battery System Voltage	12/24V
Battery Voltage Range	8-32V	Battery Voltage Range	8-32V
Battery Type	GEL/SEL/FLD/LI/USER (Optional)	Battery Type	GEL/SEL/FLD/LI/USER (Optional)
Charging Mode	MPPT+CC+CV	Charging Mode	MPPT+CC+CV
Max Current	30A	Max Current	30A
BVS	Yes	BVS	NO
PV			

Over-Heating, High Ambient Temperature

PV	
Charging Mode	Buck MPPT+CC+CV
Max Solar Input Power	450W/900W
Max Solar Input Voltage	60Voc
PV Tracking Efficiency	>99%

EXT(External Charging Equipment)		
Charging Mode	DC-DC Buck-Boost Charging	
Equipment Type	DC Alternator, Adapter, Charger, Power Supply, Battery	
Max Charging Current	30A	
EXT Input Voltage Range	8-32V	
Max EXT Input Power	450W/900W	

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