



# MD series

DC-DC charger with MPPT

## For off-grid application

- Can be connected to both PV and alternator
- Can charge both the leisure battery and the starter battery

## User-Friendly

- Easy to install and simple to use
- Natural cooling, absolutely quiet

## Safety

- 360 degrees of security from hardware to software

## All-in-One

- 4 charging mode, be your reliable power steward
- Helps you save space and wire

## Efficient

- MPPT with up to 99.9% efficiency
- Support solar panels 2 in series/2 in parallel connection

## Intelligent

- Supports RV-C communication

### Application scenario



House



Farm



Telecom



Countryside



Island



Pasture

MODEL	MD1230N05	MD1250N05	Can Be Set
<b>PV INPUT</b>			
Max.Voltage of Open Circuit	55Vdc		
MPPT Voltage Range	17~36Vdc		
Max.PV Input Current	27A	45A	✓
Max.PV Input Power	400W	700W	✓
<b>LEISURE BATTERY</b>			
Battery Type	Lead-acid / Li-ion / User Defined		✓
Rated Battery Voltage	12Vdc		
Battery Voltage Range	9~16Vdc		✓
Max.MPPT Charging Current	30A	50A	✓
Max.Alternator Charging Current	35A	60A	✓
<b>STARTER BATTERY / ALTERNATOR</b>			
Battery Type	Lead-acid		
Rated Battery Voltage	12/24Vdc		
Max.MPPT Charging Voltage	13.8V		
Max.MPPT Charging Current	≤15A	≤25A	
Max.Alternator Input Voltage	Conventional Alternator	13.2~16Vdc / 26.4~32Vdc	
	Euro 6 Standard Alternator	12~16Vdc / 24~32Vdc	
Alternator Charging Mode	Buck,Boost,Buck-Boost		
<b>EFFICIENCY</b>			
MPPT Tracking Efficiency	>99%		
Max. Charging Conversion Efficiency	98%		
<b>COMMUNICATION</b>			
Embedded Interfaces	TTL、Remote Switch		✓
External Modules	Bluetooth (with APP)		✓
<b>GENERAL</b>			
Weight	1.92kg (4.23 lb)	2.15kg (4.73lb)	
Dimension	221*175.8*92.4mm (8.7*6.9*3.63in)		
Protection Degree	IP32		
Operating Temperature Range	-35°C~65°C (-31°F~149°F)		
<b>CERTIFICATION</b>			
Safety	IEC62109		
EMS	IEC61000, FCC sDoC		
Rohs	YES		