



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
PV INPUT					
Max.Voltage of Open Circuit		55Vdc			
MPPT Voltage Range		17~36Vdc			
Max.PV Input Current		27A	45A		✓
Max.PV Input Power		400W	700W		✓
LEISURE BATTERY					
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		✓
STARTER BATTERY / ALTERNATOR					
Battery Type		Lead–acid			
Rated Battery Voltage		12/24Vdc			
Max.MPPT Charging Voltage		13.8V			
Max.MPPT Charging Current		≤15A	≤25A		
Max.Alterna– tor 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			
EFFICIENCY					
MPPT Tracking Efficiency		>99%			
Max. Charging Conversion Efficiency		98%			
COMMUNICATION					
Embedded Interfaces		TTL、Remote Switch			✓
External Modules		Bluetooth (with APP)			✓
GENERAL					
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)			
CERTIFICATION					
Safety		IEC62109			
EMS		IEC61000, FCC sDoC			
Rohs		YES			