



## MD series

DC-DC charger with MPPT

### For off-grid application

- Can be connected to both PV and alternator
- Can charge the backup battery by PV and Alt at same time

### User-Friendly

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

### Safety

- 360 degrees of security from hardware to software
- IP65 protection degree

### All-in-One

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

### Efficient

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

### Intelligent

- Supports TTL communication

#### Application scenario



House



Farm



Telecom



Countryside



Island



Pasture

MODEL		MD4830N06	Can Be Set
PV INPUT			
Max.Voltage of Open Circuit		60Vdc	
MPPT Voltage Range		17~42Vdc	
Max.PV Input Current		100A	✓
Max.PV Input Power		400W (12Vbat) / 800W (24Vbat) / 1600W (48Vbat)	✓
LEISURE BATTERY			
Battery Type		Lead-acid / Li-Ion / User Defined	✓
Rated Battery Voltage		12/24/48Vdc	
Battery Voltage Range		9~60Vdc	✓
Rated Charging Current		30A	✓
MPPT Charging Mode		Buck,Boost,Buck-Boost	✓
STARTER BATTERY / ALTERNATOR			
Battery Type		Lead-acid	
Rated Battery Voltage		12/24/48Vdc	
Max.Alterna-tor Input Voltage	Conventional Alternator	13.2~16Vdc / 26.4~32Vdc/ 52.8~64Vdc	
	Euro 6 Standard Alternator	12~16Vdc / 14~32Vdc/ 48~64Vdc	
Alternator Charging Mode		Buck,Boost,Buck-Boost	
EFFICIENCY			
MPPT Tracking Efficiency		>99%	
Max. Charging Conversion Efficiency		98%	
COMMUNICATION			
Embedded Interfaces		TTL	✓
External Modules		Bluetooth (with APP)	✓
GENERAL			
Weight		5.3kg (11.68 lb)	
Dimension		233*262*100mm (9.17*10.31*3.93 in)	
Protection Degree		IP65	
Operating Temperature Range		-35°C~65°C (-31°F~149°F)	
CERTIFICATION			
Safety		IEC62109	
EMS		IEC61000, FCC sDoC	
Rohs		YES	