



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 | |