jntech

# Solar MPPT Charge Controller

**Description**

JNC series controller uses intelligent battery charge and discharge management, with temperature compensation attached ,better manage the battery and extend battery lifespan,RS485 communication interface.

## Features:

**High efficiency:**
- MPPT efficiency ≥97%
- System efficiency up to 92%

**Easy & Convenient:**
- Easy to install and operate,wall mounted,light weight;

**Smart:**
- Standard three-stage charging method
- Intelligent temperature compensation long lifespan battery
- LCD display Parameters in English
- LED indicate the state real-time

**Safety:**
- IP65 protection level, anti-irrigation protection,
- Photovoltaic anti-reverse function
- Under/over voltage, over temperature, overload and short circuit

| Model | JNC40A /12V | JNC40A /24V | JNC40A /36V | JNC40A /48V |
|---|---|---|---|---|
| **PV Input** | | | | |
| Max. pv input voltage | 190Vdc | 190Vdc | 190Vdc | 190Vdc |
| Mppt voltage range | 20-190Vdc | 30-190Vdc | 45-190Vdc | 60-190Vdc |
| Max. input power | 580W | 1150W | 1750W | 2300W |
| Max. input current | 38A | 38A | 38A | 38A |
| **Battery** | | | | |
| Rated voltage | 12Vdc | 24Vdc | 36Vdc | 48Vdc |
| Floating charge voltage | 13.5Vdc | 27Vdc | 40.5Vdc | 54Vdc |
| Equalize charging voltage | 14.3Vdc | 28.6Vdc | 42.9Vdc | 57.2Vdc |
| Temperature factor | ± 0.02%C (can be defined) | | | |
| Over charge protection | 15Vdc | 30Vdc | 45Vdc | 60Vdc |
| Rated output current | 40A | 40A | 40A | 40A |
| Protection voltage | 10.5Vdc | 21Vdc | 31.5Vdc | 42Vdc |
| Max. load power | 540W | 1080W | 1620W | 2160W |
| Max. load current | 40A | 40A | 40A | 40A |
| **General** | | | | |
| Soft start time(S) | <10 | | | |
| Dynamic recovery time（US） | 500 | | | |
| Max. efficiency | ≥ 97% | | | |
| Protection level | IP65 | | | |
| Audible noice | <50dB | | | |
| Cooling method | Nature Cooling | | | |
| Operate temp. | -20～+50℃ | | | |
| Storage temp. | -25～+70℃ | | | |
| Interface | RS485 | | | |
| Dimension(D/W/H)(mm) | 240*200*90 | | | |
| Weight (Kg) | 5 | | 7 | |
| Elevation | 2000m (2000 derating operate) | | | |
| Standards | CE,IEC 62109-1:62109-2 | | | |