



Model: C800M series

All lithium batteries on the market should be charged with a special charger for lithium batteries. If not, your battery will not be fully charged, or it will be damaged. The C800M series Lithium Battery Charger 12V 800W has optimized this charger for use with LiFePO4 and LiMn2O4. DC input voltage provides 10-44VDC, and rated output voltage is DC 12V 800W. Intelligent stages charging with CC, CV. For 12V LiFePO4, CC value is 14.6V, and 12V LiMn2O4 (3 series) is 12.6V. After reaching the CC value, the charger will down the charge current to 10% charge current, there will have no float charging, it is professional for lithium batteries charge.



►Key Features

- * Design meeting by CE, RoHS, ISO9001-2015
- * Special design for LiFePO4 and LiMn2O4 batteries CC/CV Value.
- * Full charge current design and efficiency up to 95%
- * Provide OV, OT, OC(@CC model), and short circuit protection.
- * DC output terminals diversify, suit for any battery system.
- * Advanced switching mode power supply technology.
- * Waterproof, Dust-proof, Shockproof design suit for much environment.
- * RS485 protocol (optional): control of current and voltage.
- * Provide LED to show charging state, Compact and light weight, natural cooling.
- * 2 years limited warranty.

WG: "szwengao" company name 12: Battery voltage C: Charger 800: Charging power (watt) M: Type of shell





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| ▶ Specifications | | | | |
|----------------------------|---|---|---------------------------|--|
| Model No. | WG-12C800M | WG-16C800M | WG-24C800M | |
| Battery type | Lifepo4 | | | |
| Max. output DC voltage | 14.6V±0.2V | 18.2V±0.2V | 29.2V±0.2V | |
| Output current | 55A±3% | 44A±3% | 27A±3% | |
| DC input rated voltage | 12V/24V/36VDC (battery) | | | |
| DC input voltage range | 10-44VDC | | | |
| DC input peak voltage | 45VDC | | | |
| Input lowvoltage shutdown | 9.5VDC (accept custom), flashing @ red light | | | |
| Input lowvoltage recovery | 10.5VDC (accept custom) | | | |
| Input fuse type | 120A (Unit input postive has built-in fuses) | | | |
| Max. input current | 84.5A(Vin=10V, Iout=55A) | 85.1A(Vin=10V, Iout=44A) | 85.4A (Vin=10V, Iout=27A) | |
| CC (constant current) | ≤14.6V, 800W | ≤18.2V, 800W | ≤29.2V, 800W | |
| CV (constant voltage) | 14.6V, 800W ↓ | 18.2V, 800W ↓ | 29.2V, 800W ↓ | |
| No load current | 125mA (Vin=12VDC) | 135mA (Vin=12VDC) | 175mA (Vin=12VDC) | |
| RS485 remote output(OFF) | 16mA (Vin=12VDC) | 16mA (Vin=12VDC) | 16mA (Vin=12VDC) | |
| Ignition shutdown(ACC OFF) | 70uA (Vin=12VDC) | 70uA (Vin=12VDC) | 70uA (Vin=12VDC) | |
| Battery leakage current | 0.55mA | 0.65mA | 1mA | |
| Anti backflow function | YES | | | |
| Float charging | NO | | | |
| Ignition wire (ACC wire) | Optional (10-40VDC ON, 0-8VDC OFF) | | | |
| Power efficiency | 95% @ (Vin=12VDC) | | | |
| Ripple & Noise | 220-500mVp-p | | | |
| Working temperature | -40℃ ~ +55℃ | | | |
| Waterproof level | IP65 | | | |
| Dimension | 140*120*42.5mm (5.51*4.72*1.67 inch) | | | |
| Weight | ≤1.3kg | | | |
| Input cable type(suggest) | 6AWG | If the wire length is greater than 1m, it is recommended to | | |
| Output cable type(suggest) | 8AWG | use a thicker wire diameter. | | |
| Cooling | Natural | | | |
| Packing | Вох | | | |
| LED light display | RED: battery is charging; GREEN: fully charged. | | | |

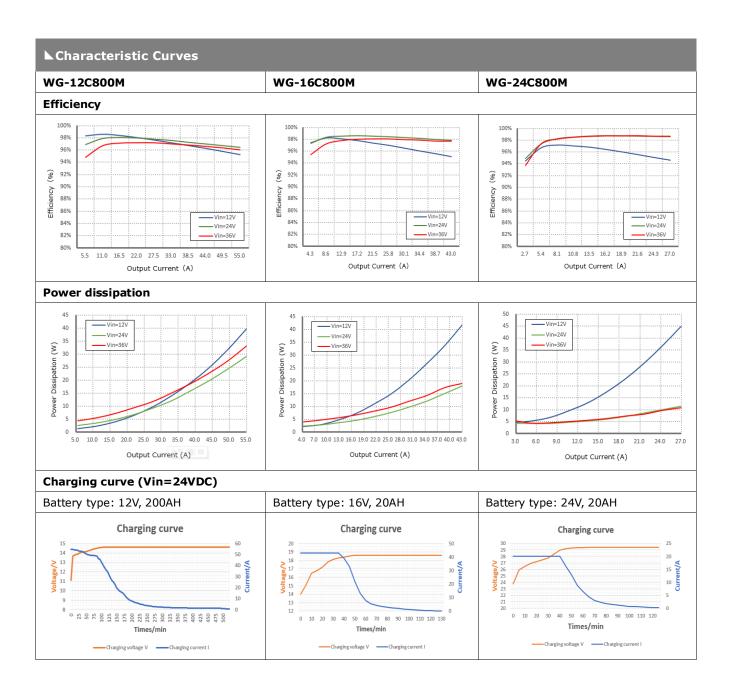
▶RS485 Communication Function (optional)

- 1, Input undervoltage and overvoltage protection point and recovery point can be set (customized for different application scenarios)
- 2, Adjustable output voltage 10-30V (customized charging curve for different types and capacities of batteries).
- 3, Adjustable output current 1A-55A (customized charging curve for different types and capacities of batteries).
- 4, Battery full state indicator current conversion point 1-5A can be set (customized for different capacity batteries).
- 5, RS485 remote output ON/OFF function (battery full stop charging).
- 6, Output voltage and current calibration function (ensures batch consistency).
- $7, \quad \text{Real-time reporting of input and output operating parameters (protection alarms)}.$
- 8, All settable parameters have a power-down storage function.

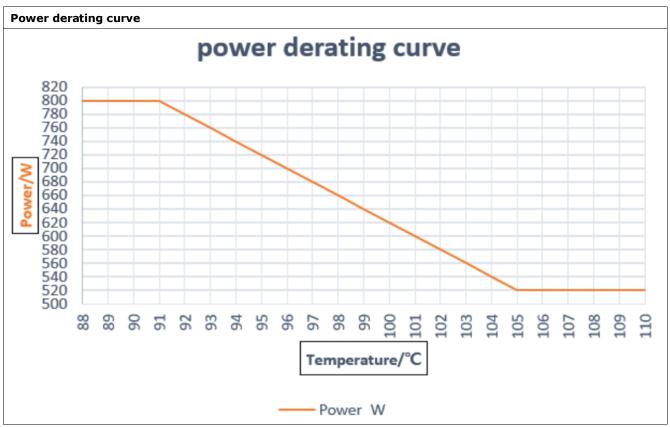


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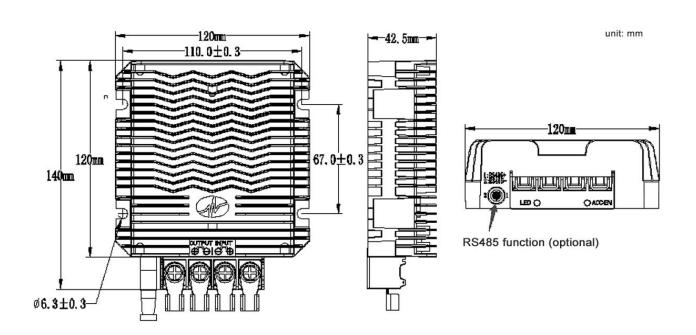
| ▶Function & Safety | | | | | |
|-----------------------------|--|-----------------|--------------------------------|--|--|
| Short circuit protection | YES (Automatic recovery) | | | | |
| Over voltage protection | YES (Automatic recovery) | | | | |
| Over current protection | YES (Automatic recovery) | | | | |
| Over temperature protection | YES(Automatic derating of output charging power for high temperatures, | | | | |
| | refer to derating curve) | | | | |
| Anti electric strength | Input to shell | ≥ 500V | Leakage current ≤ 3.5mA, 1min, | | |
| | Output to shell | | no breakdown, no arcing | | |
| Insulation resistance | Input to Shell | ≥10MΩ | Test voltage = 500V | | |
| | Output to Shell | | | | |
| MTBF | ≥ 200,000H | Vin=12V/24V/36V | | | |







▶ Dimension



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