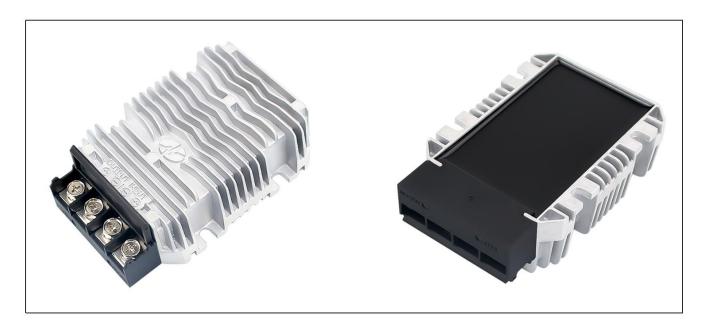


Model: WG-48C1220M

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 WG-48C1220M Lithium Battery Charger 12V 20A has optimized this charger for use with LiFePO4 and LiMn2O4. DC input voltage provides 18-60VDC, and rated output voltage is DC 12V 20A. Intelligent stages charging with CC, CV. For 12V LiFePO4, CV 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 96.7%
- \* Provide LV, 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.
- \* Super capacitor 0V start charging.
- \* Provide LED to show charging state, Compact and light weight, natural cooling.
- \* 2 years limited warranty.

## **►** Model Naming Method

WG-48C1220M

WG: "szwengao" company name

48: Input DC rated voltage

C : Charger

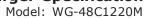
**12**: Battery voltage**20**: Charging current

**M** : Type of shell

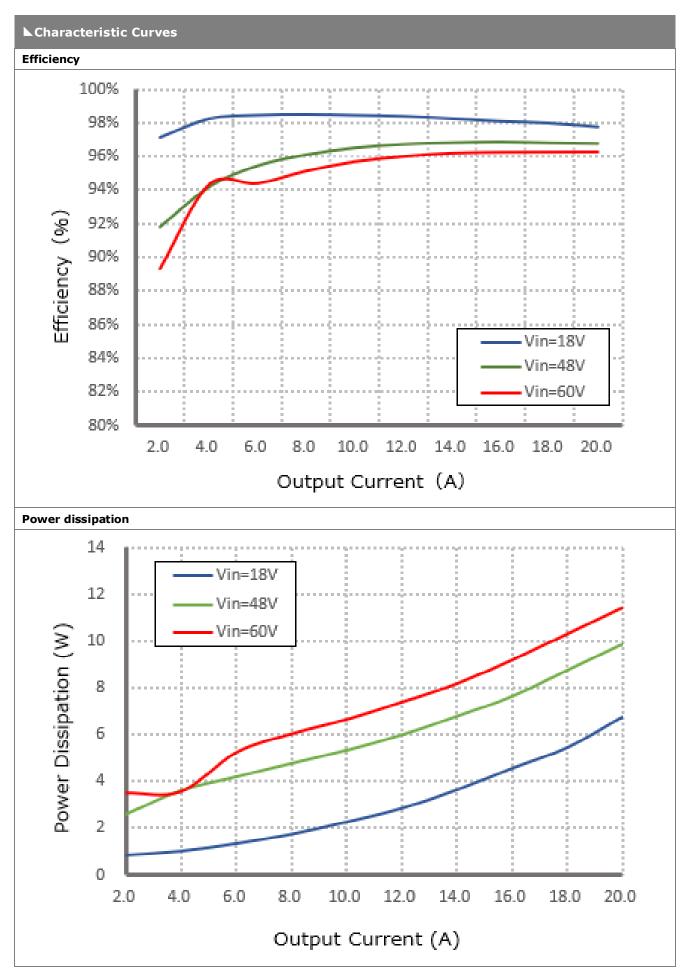


<b>▲</b> Specifications				
Model No.	WG-48C1220M			
Battery type	Lifepo4			
Max. output DC voltage	14.6V±0.2V			
Output current	20A±3%			
DC input rated voltage	24V/36V/48VDC (battery)			
DC input voltage range	18-60VDC			
DC input peak voltage	60VDC			
Input lowvoltage shutdown	15.9VDC, @ green light			
Input lowvoltage recovery	17.5VDC, @ red light			
Input fuse type	20A (Unit input postive has built-in fuses)			
Max. input current	16.6A (Vin=18V, Iout=20A)			
CC (constant current)	≤14.6V, 290W			
CV (constant voltage)	14.6V, 290W ↓			
No load current	59mA (Vin=48VDC)			
Ignition shutdown (ACC OFF)	32uA (Vin=48VDC)			
Battery leakage current	0.27mA			
Anti backflow function	YES			
Float charging	NO			
Ignition wire (ACC wire)	Optional (18-60VDC ON, 0-18VDC OFF)			
Power efficiency	96.7% @ (Vin=48VDC)			
Ripple & Noise	80-260mVp-p			
Working temperature	-40℃ ~ +55℃			
Waterproof level	IP65			
Dimension	100*80*36mm (3.94*3.15*1.42 inch)			
Weight	≤550g			
Input cable type(suggest)	14AWG	If the wire length is greater than 1m, it is recommended to		
Output cable type(suggest)	14AWG	use a thicker wire diameter.		
Cooling	Natural			
Packing	Box			
LED light display	RED: battery is charging; GREEN: fully charged.			

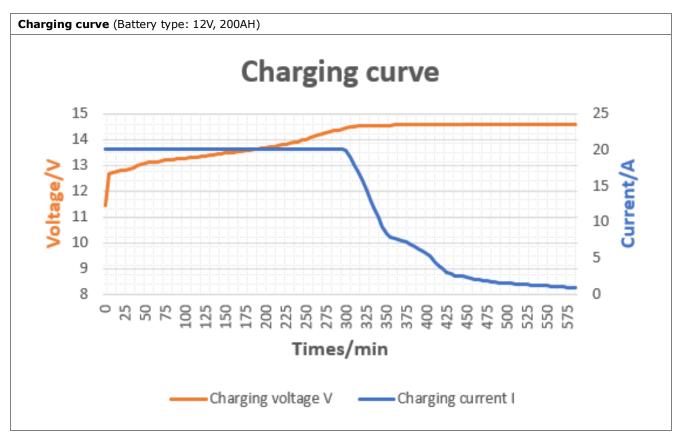
▶Function & Safety					
Short circuit protection	YES (Automatic recovery)				
Over voltage protection	NO				
Over current protection	YES (Automatic recovery)				
Over temperature protection	YES (Automatic recovery)				
Anti electric strength	Input to shell	≥ 500V	Leakage current ≤ 1mA, 1min,		
	Output to shell		no breakdown, no arcing		
Insulation resistance	Input to Shell	· ≥10MΩ	Test voltage = 500V		
	Output to Shell				
MTBF	≥ 200,000H	Vin=24V/36V/48V			





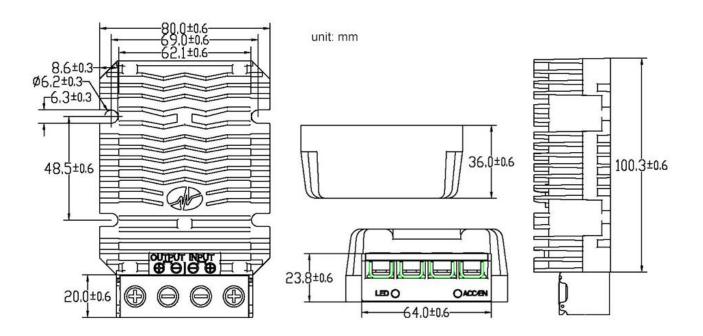






Model: WG-48C1220M

## ▶Dimension(unit: mm)



## Shenzhen Wengao Electronic Co., Ltd

A: 2/F A, Bldg.A2, Anle Ind. Hangcheng RD., Xixiang Street, Baoan Dist., Shenzhen, China 518102

T: +86 755 29418061 F: +86 755 29418061 E: <u>info@wengaoelec.com</u> W: www.wengaoelec.com