

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 C400L series Lithium Battery Charger 12V 400W has optimized this charger for use with LiFePO4 and LiMn2O4. DC input voltage provides 10-36VDC, and rated output voltage is DC 12V 400W. 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 96%
- ※ 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.
- ※ Provide LED to show charging state.
- ※ Compact and light weight, natural cooling.
- ※ 2 years limited warranty.

Plug Available

			
Cables	Alligator Clips	Anderson Plug	M6, M8, M10 Rings

Model Naming Method

W G- 12C400L

WG: Manufactory name
 12 : Battery voltage
 C : Charger
 400: Charging power(watt) L
 : Type of shell

DC-DC Lithium Battery Charger Specification

Model: C400L series

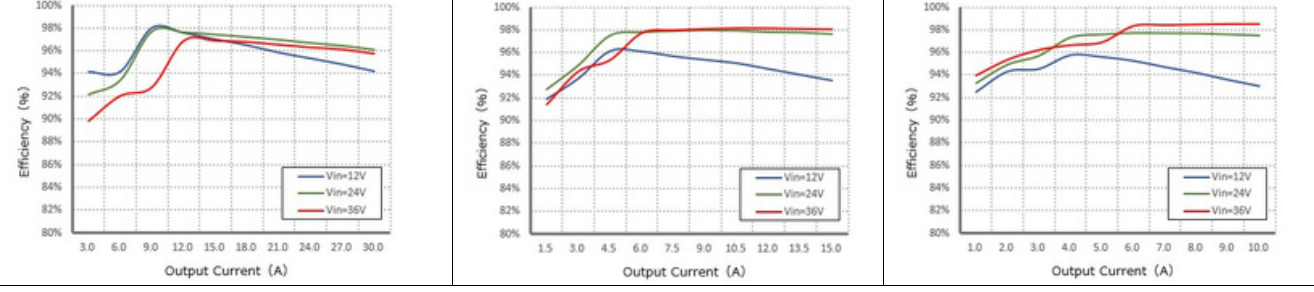
Specifications	
Model No.	WG-12C400L WG-24C400L WG-36C400L
Battery type	Lifepo4
Max. output DC voltage	14.6V±0.2V 29.2V±0.2V 43.8V±0.2V
Output current	30A±3% 15A±3% 10A±3%
DC input rated voltage	12V/24VDC (battery)
DC input voltage range	10-36VDC
DC input peak voltage	40VDC
Input lowvoltage shutdown	9.5VDC (accept custom)
Input lowvoltage recovery	10.5VDC (accept custom)
Input fuse type	60A (Unit input postive has built-in fuses)
Max. input current	43A (Vin=10.5V, Iout=30A) 43A (Vin=10.5V, Iout=15A) 43A (Vin=10.5V, Iout=10A) ≤14.6V,
CC (constant current)	400W ≤29.2V, 400W ≤43.8V, 400W
CV (constant voltage)	14.6V, 400W ↓ 29.2V, 400W ↓ 43.8V, 400W ↓
No load current	110mA (Vin=24VDC) 130mA (Vin=24VDC) 160mA (Vin=24VDC)
Battery leakage current	2mA 3mA 5mA
Anti backflow function	YES
Float charging	NO
Ignition wire(ACC wire)	Optional (10-36VDC ON, 0-8VDC OFF)
Power efficiency	96% @ (Vin=12VDC)
Ripple & Noise	220-500mVp-p
Working temperature	-40°C ~ +55°C
Waterproof level	IP65
Dimension	200*77*30mm (7.87*3.03*1.18 inch)
Weight	≤1.1kg
Input cable type	45cm length @ 10AWG If the wire length is greater than 1m, it is recommended to
Output cable type	45cm length @ 10AWG 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	YES
Over current protection	YES (Automatic recovery)
Over temperature protection	YES
Anti electric strength	Input to shell ≥ 500V Output to shell
Insulation resistance	Input to Shell ≥10MΩ Output to Shell
MTBF	≥ 200,000H Vin=12V/24V
	Leakage current ≤ 3.5mA, 1min, no breakdown, no arcing
	Test voltage = 500V

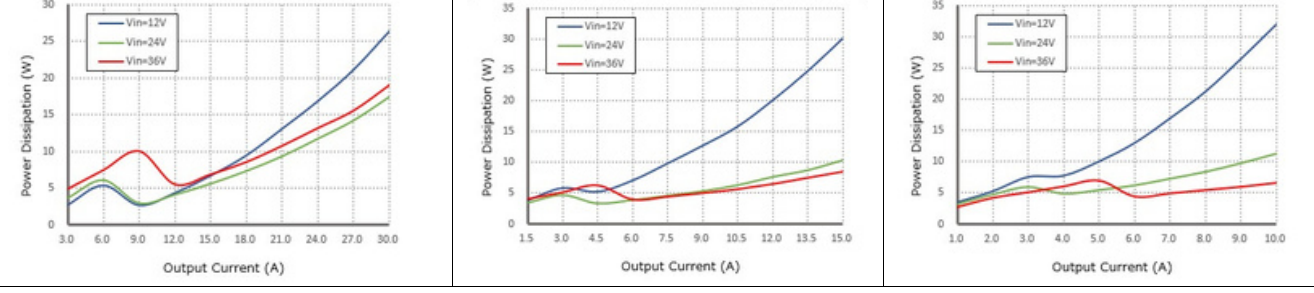
Characteristic Curves

WG-12C400L	WG-24C400L	WG-36C400L
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Efficiency

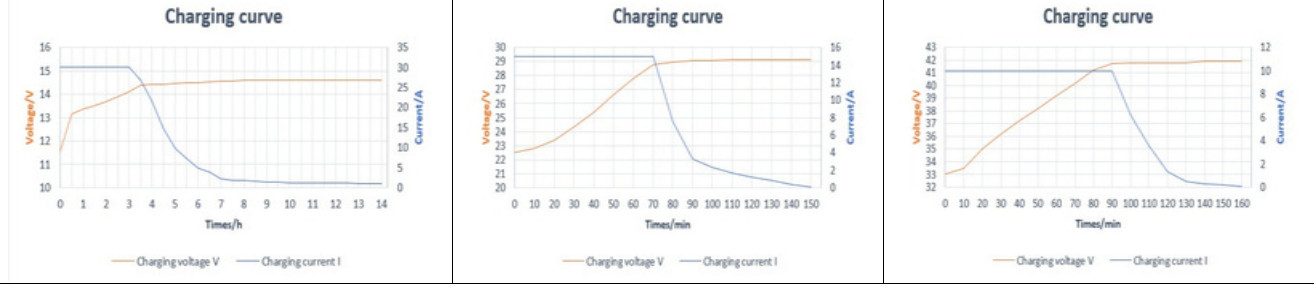


Power dissipation

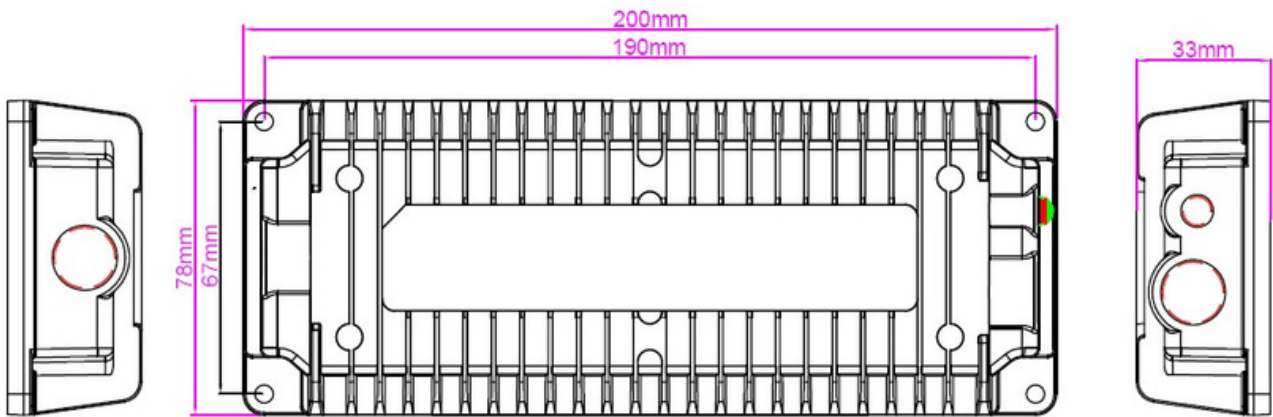


Charging curve (Vin=24VDC)

Battery type: 12V, 200AH	Battery type: 24V, 20AH	Battery type: 36V, 20AH
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Dimension



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