

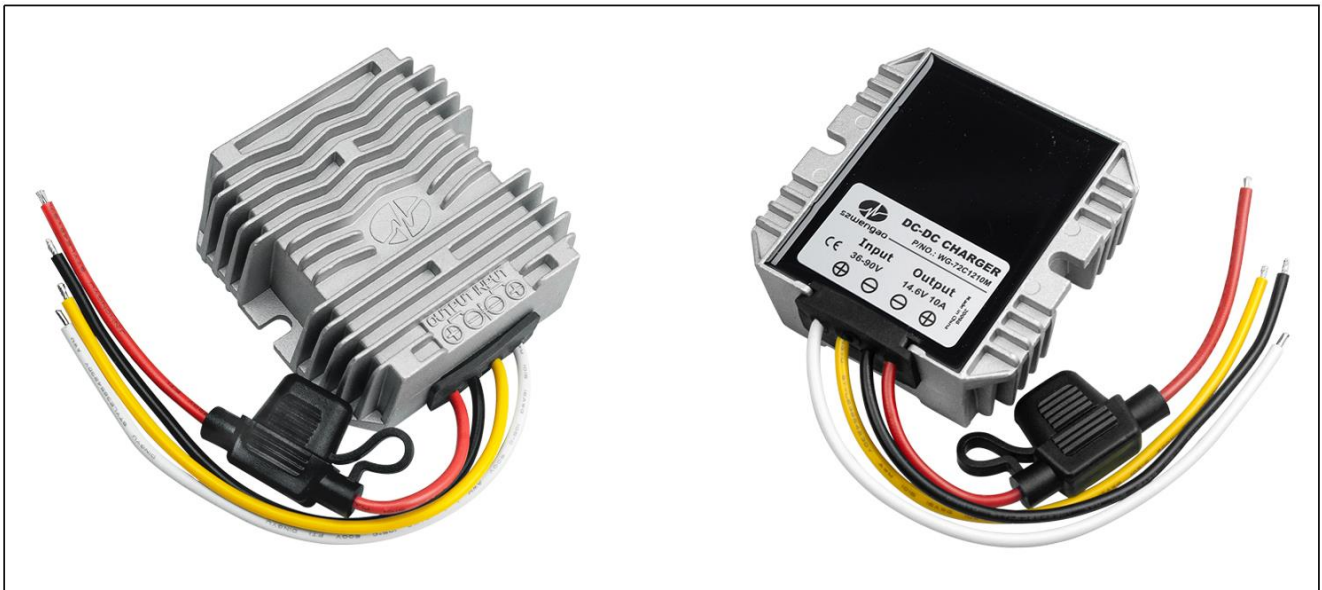


szwengao

DC-DC Lithium Battery Charger Specification

Model: WG-72C1210M

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-72C1210M Lithium Battery Charger 12V 10A has optimized this charger for use with LiFePO4 and LiMn2O4. DC input voltage provides 36-90VDC, and rated output voltage is DC 14.6V 10A. 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 91.1%
- ※ Provide LV, OT, OC(@CC model), and short circuit protection.
- ※ **Isolated between input and output**, suit for any battery system.
- ※ Advanced switching mode power supply technology.
- ※ Waterproof, Dust-proof, Shockproof design suit for much environment.
- ※ Compact and light weight, natural cooling.
- ※ 2 years limited warranty.

Model Naming Method

WG-72C1210M	WG: "szwengao" company name
	72 : Input DC rated voltage
	C : Charger
	12 : Battery voltage
	10 : Charging current
	M : Type of shell



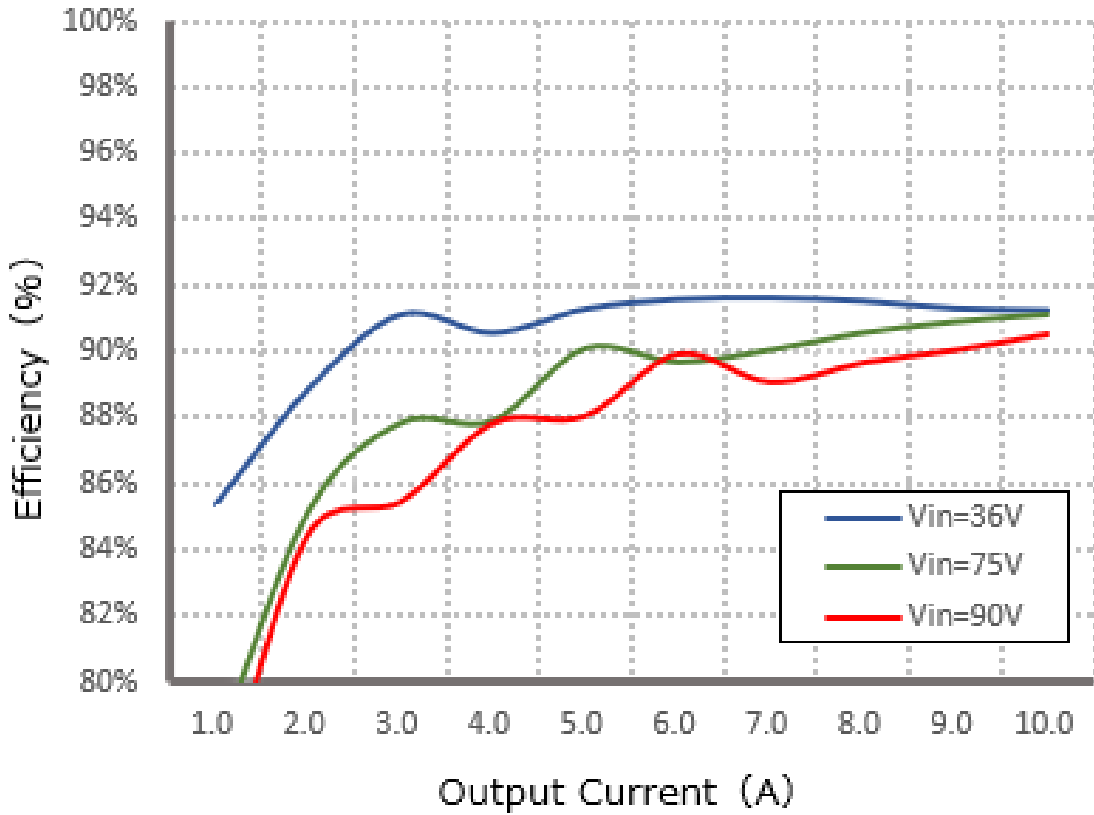
▾ Specifications		
Model No.	WG-72C1210M	
Battery type	Lifepo4	
Max. output DC voltage	14.6V±0.2V	
Output current	10A±5%	
DC input rated voltage	48V/60V/72VDC (battery)	
DC input voltage range	36-90VDC	
DC input peak voltage	100VDC (2ms)	
Input lowvoltage shutdown	34V±0.2V	
Input lowvoltage recovery	35.5V±0.2V	
Input fuse type	10A (Unit input postive has built-in fuses)	
Max. input current	4.4A (Vin=36V, Iout=10A)	
CC (constant current)	≤14.6V, 146W	
CV (constant voltage)	14.6V, 146W ↓	
No load current	10mA (Vin=72VDC)	
Ignition shutdown (ACC OFF)	1.8mA (Vin=72VDC)	
Battery leakage current	0.59mA	
Anti backflow function	YES	
Float charging	NO	
Ignition wire (ACC wire)	Optional (36-90VDC ON, 0-36VDC OFF)	
Power efficiency	91.1% @ (Vin=72VDC)	
Ripple & Noise	50-200mVp-p	
Working temperature	-40℃ ~ +55℃	
Waterproof level	IP65	
Dimension	74*74*29.5mm (2.91*2.91*1.16 inch)	
Weight	≤300g	
Input cable type	18AWG @ 17cm length	Positive: white cable; Negative: yellow cable
Output cable type	16AWG @ 17cm length	Positive: red cable; Negative: black cable
Cooling	Natural	
Packing	Box	

▾ 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 recovery)		
Anti electric strength	Input to Output	1500Vdc	Leakage current ≤ 1mA, 1min, no breakdown, no arcing
	Input to shell	1500Vdc	
	Output to shell	500Vdc	
Insulation resistance	Input to Output	≥10MΩ	Test voltage = 500V
	Input to Shell		
	Output to Shell		
MTBF	≥ 200,000H	Vin=48V/60V/72V	

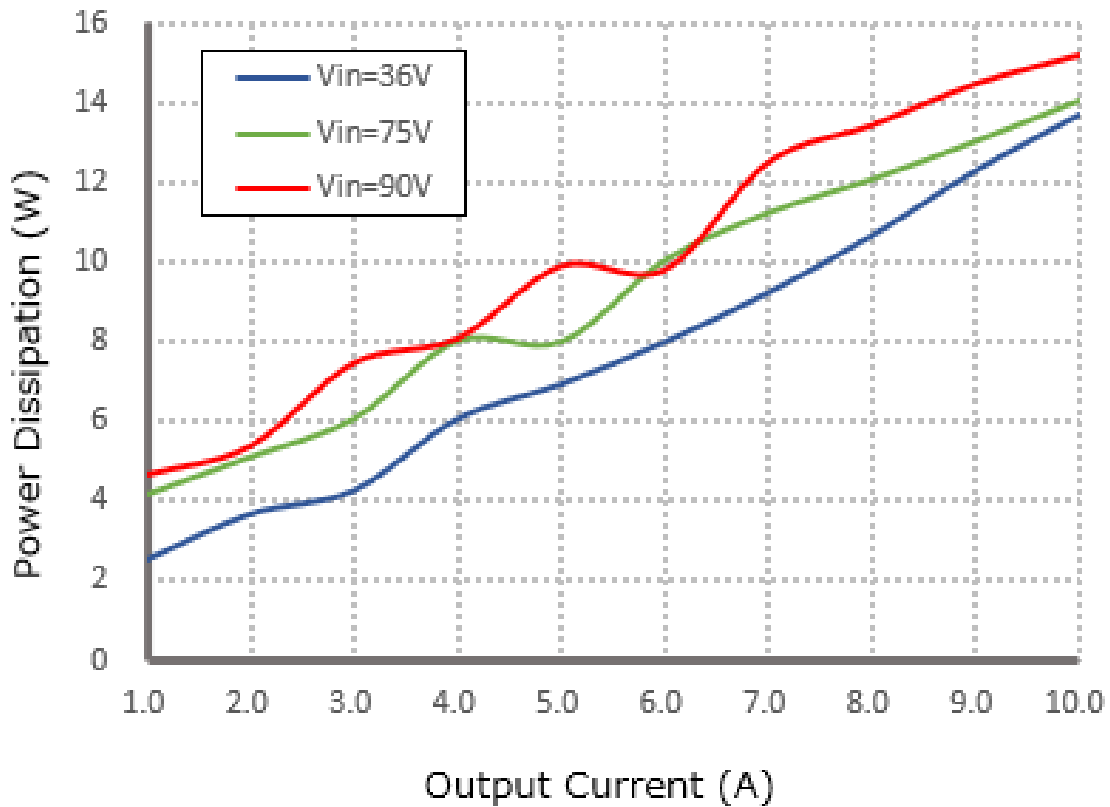


Characteristic Curves

Efficiency

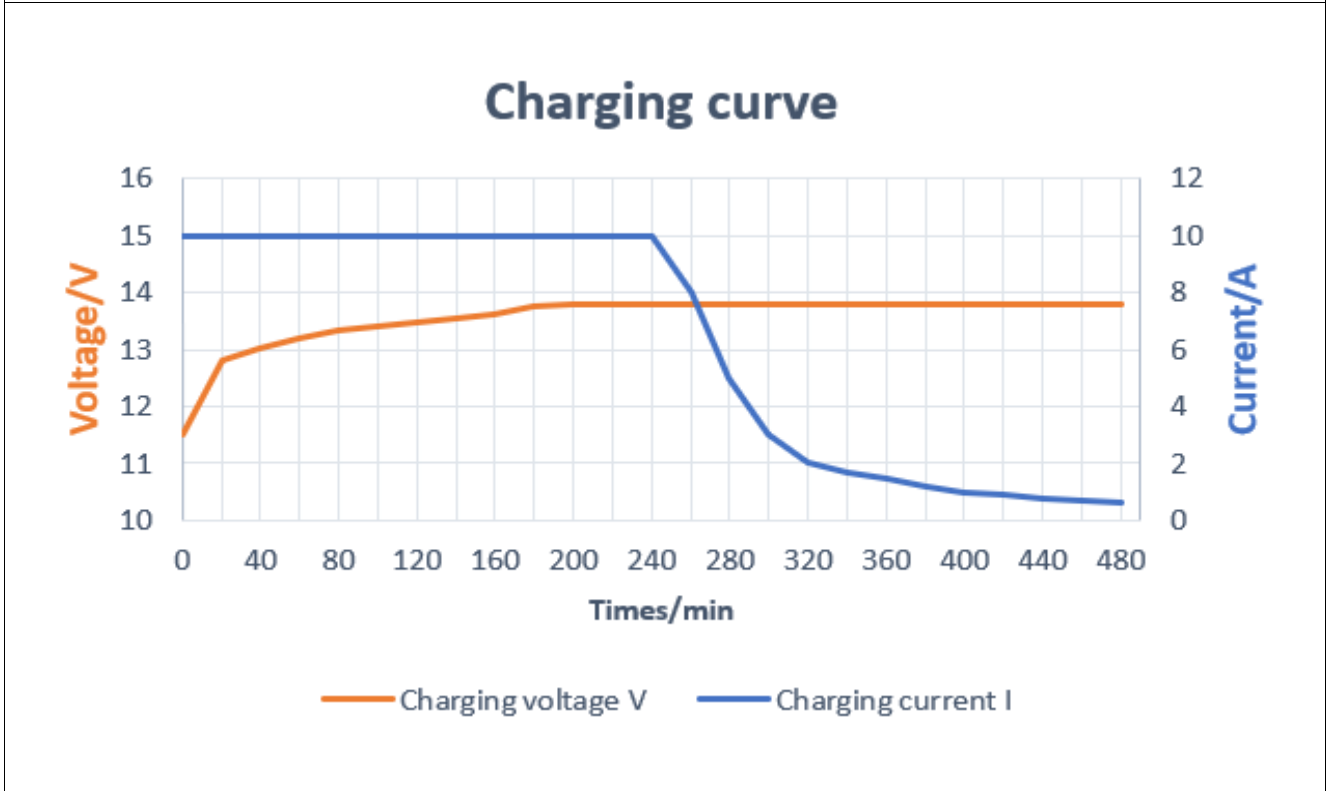


Power dissipation





Charging curve



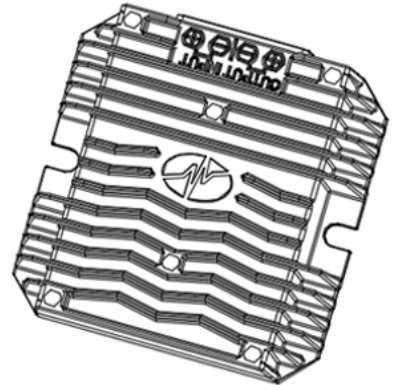
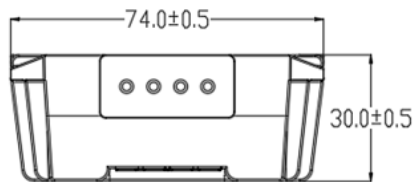
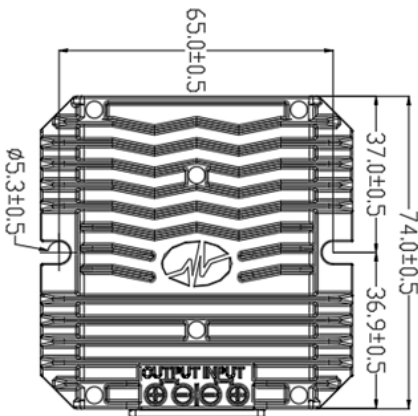
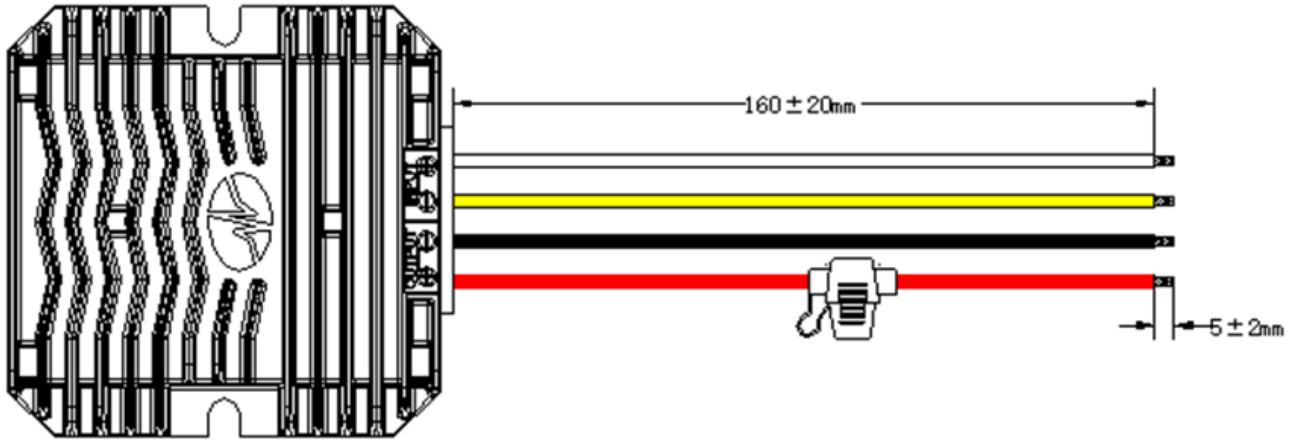


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Model: WG-72C1210M

Dimension(unit: mm)



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