


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-48C600S Lithium Battery Charger 48V 600W has optimized this charger for use with LiFePO4 and LiMn2O4. AC input voltage provides 90-265VAC, and rated output voltage is DC 48V 600W. Intelligent stages charging with CC, CV. For 48V LiFePO4, CC value is 58.4V, and 48V LiMn2O4 (12 series) is 50.4V. 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	
	<ul style="list-style-type: none"> <li>* Design meeting by CE, RoHS, FCC, ISO9001-2015</li> <li>* Special design for LiFePO4 and LiMn2O4 batteries CC/CV Value.</li> <li>* Full charge current design and efficiency up to 95%</li> <li>* Provide OV, OT, OC(@CC model), and short circuit protection.</li> <li>* DC output terminals diversify, suit for any battery system.</li> <li>* Advanced high frequency switching mode power supply technology.</li> <li>* Waterproof, Dust-proof, Shockproof design suit for much environment.</li> <li>* Provide LED to show charging state.</li> <li>* Compact and light weight, natural cooling.</li> <li>* 2 years limited warranty.</li> </ul>

Plug Available			
			
US	EU	UK	AU

Model Naming Method	
<h1>WG-48C600S</h1>	<p><b>WG:</b> "szwengao" company name</p> <p><b>48 :</b> Battery voltage</p> <p><b>C :</b> Charger</p> <p><b>600:</b> Charging power(watt)</p> <p><b>S :</b> Type of shell</p>



**szwengao**

## AC-DC Lithium Battery Charger Specification

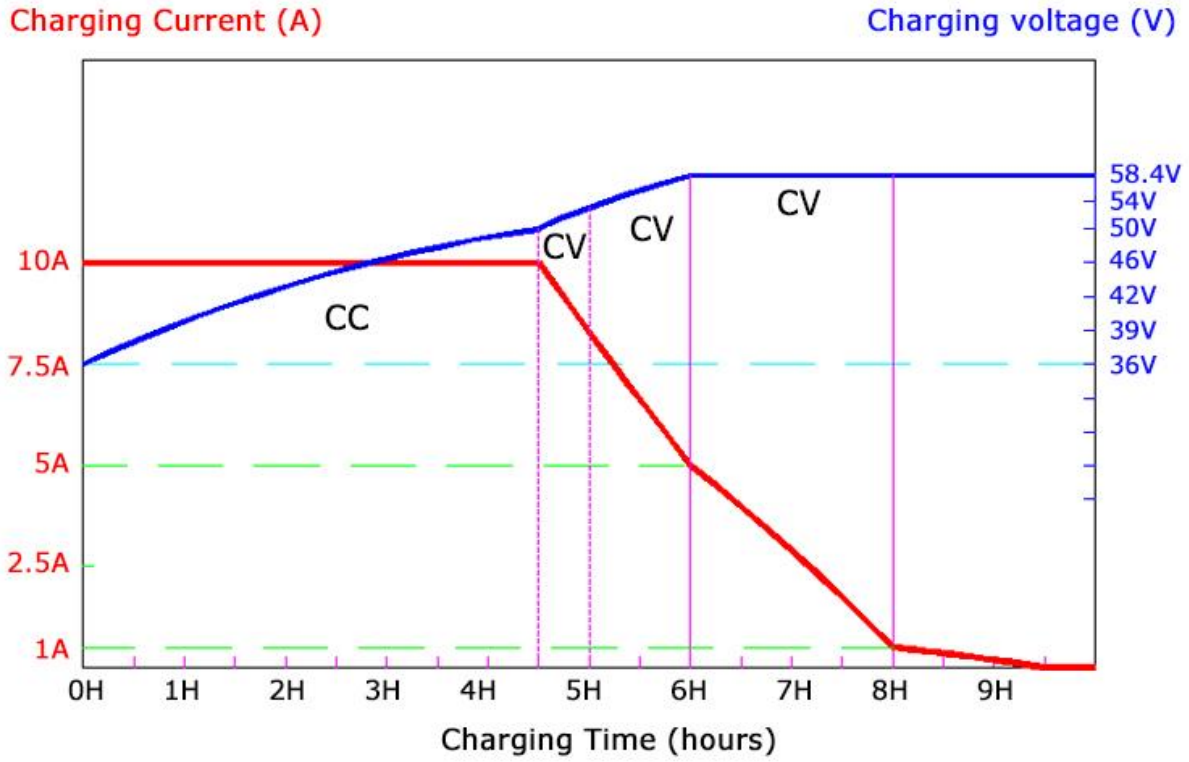
Model: WG-48C600S

▾ Specifications		
<b>Model No.</b>	<b>WG-48C600S</b>	
Battery type	Lifepo4	
Max. output DC voltage	58.4V±0.2V	
Output current	10A±3%	
AC input voltage	90-265VAC	
AC input frequency	50Hz/60Hz	
CC (constant current)	≤58.4V, 600W	
CV (constant voltage)	58.4V, 600W ↓	
Float charging	NO	
Power factor	PF>0.98/110VAC & PF>0.95/220VAC	
Power efficiency	94-96% @230VACin, 92-94% @110VACin	
Ripple & Noise	400mVp-p	
Working temperature	-40°C ~ +60°C	
Waterproof level	IP65	
Dimension	190*145*40mm (7.48*5.71*1.57 inch)	
Weight	≤2.1kg	
Input cables type	1m cable with plug	
Output cables type	1m red/black cables	
Cooling	Natural	
Packing	Box	
LED light display	<b>RED:</b> battery is charging; <b>GREEN:</b> fully charged.	
▾ Function & Safety		
Short circuit protection	YES (Automatic recovery)	
Over voltage protection	YES	
Over current protection	YES (Automatic recovery)	
Over temperature protection	YES	
Dielectric strength (test 1min)	Input to output	3KVac/10mA/1min
	Input to case	1.5KVac/10mA/1min
	Output to case	0.5KVdc/10mA/1min
Ground test	Ground impedance: < 0.1Ω	
Safety standard	GB4943/EN60950, reference	
EMC	CE & RE	EN55022-Class B
	ESD & RS	EN/IEC 61000-4-2 & EN/IEC61000-4-3
	CS	EN/IEC 61000-4-6
Moisture-proof	GB/T2423.4-1993, 24~45°C 95%RH, 48h	
MTBF	≥ 100000H	



Charging Curve

e.g.: 48V/50AH Lithium battery



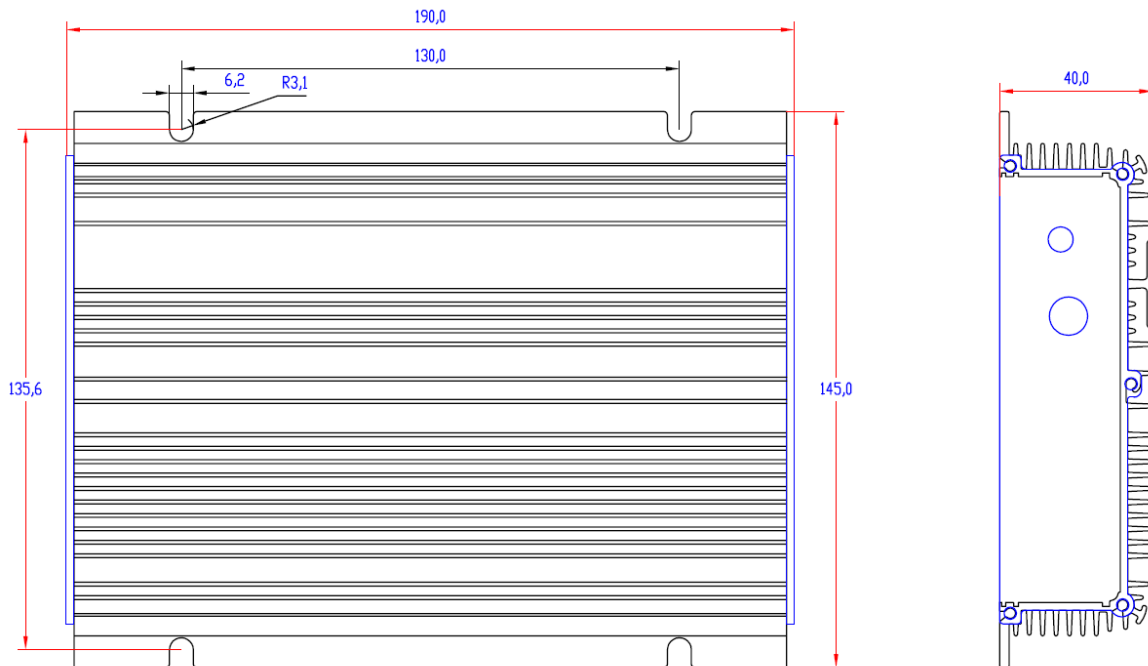
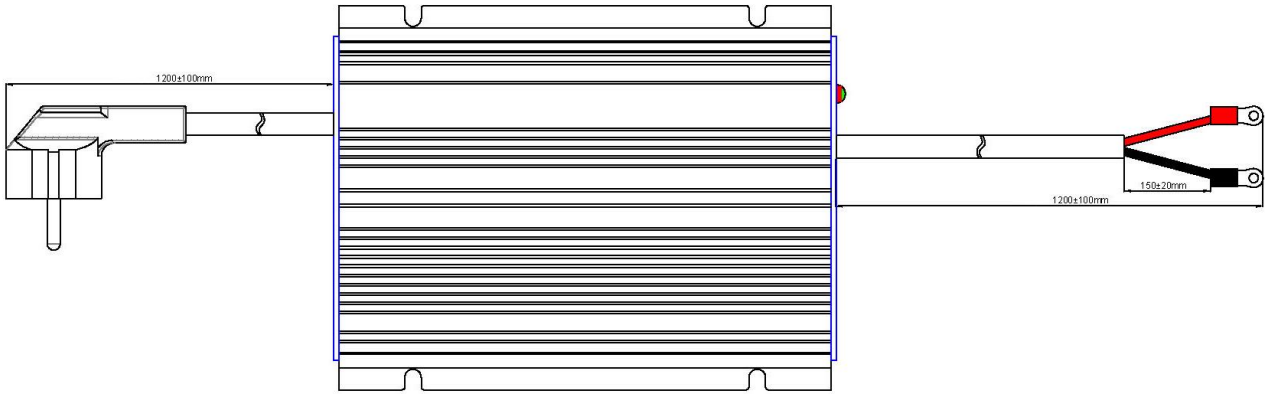


**szwengao**

# AC-DC Lithium Battery Charger Specification

Model: WG-48C600S

## Dimension(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: [info@wengaoelec.com](mailto:info@wengaoelec.com)

W: [www.wengaoelec.com](http://www.wengaoelec.com)