

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-24BC900M Bidirectional Battery Charger 24V 900W has optimized this charger for use with LiFePO4 and LiMn2O4. DC input voltage provides 10-50VDC, and rated output voltage is DC 24V 900W. Intelligent stages charging with CC, CV. For 24V LiFePO4, CC value is 29.2V, and 24V LiMn2O4 (6 series) is 25.2V. 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
- \times 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.
- X 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.

►Model Naming Method				
	WG: "szwengao" company name			
	24 : Battery voltage			
WG-24BC900M	BC : Bidirectional Charging			
	900: Charging power (watt)			
	M : Type of shell			



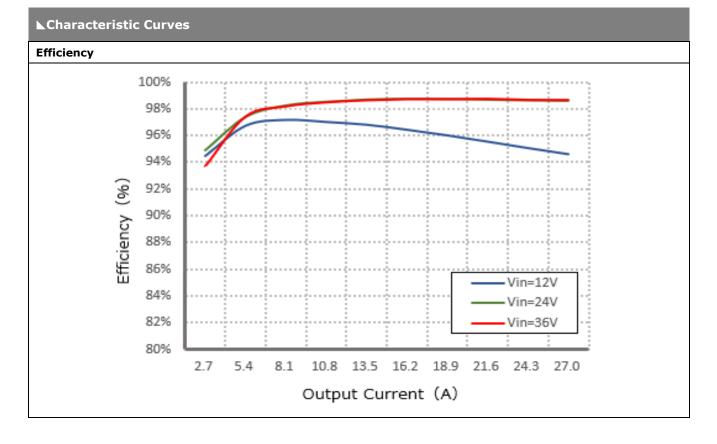
▶ Specifications				
Model No.	WG-24BC900M			
Battery type	Lifepo4			
Max. output DC voltage	29.2V±0.2V			
Output current	30A±3%			
DC input rated voltage	12V/24V/36VDC (battery)			
DC input voltage range	10-50VDC			
DC input peak voltage	60VDC			
Input lowvoltage shutdown	9.5VDC (accept custom), flashing @ red light			
Input lowvoltage recovery	10.5VDC (accept custom)			
Input fuse type	100A (Unit input postive has built-in fuses)			
Max. input current	95A(Vin=10V, Iout=30A)			
CC (constant current)	≤29.2V, 900W			
CV (constant voltage)	29.2V, 900W↓			
No load current	200mA (Vin=12VDC)			
RS485 remote output(OFF)	20mA (Vin=12VDC)			
Ignition shutdown(ACC OFF)	70uA (Vin=12VDC)			
Battery leakage current	1mA			
Anti backflow function	YES			
Bidirectional Charging	YES			
Float charging	NO			
Ignition wire (ACC wire)	Optional (10-50VDC ON, 0-8VDC OFF)			
Power efficiency	96% @ (Vin=12VDC)			
Ripple & Noise	220-600mVp-p			
Working temperature	-40°C ∼ +55°C			
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	Box			
LED light display	RED: battery is charging; GREEN: fully charged.			



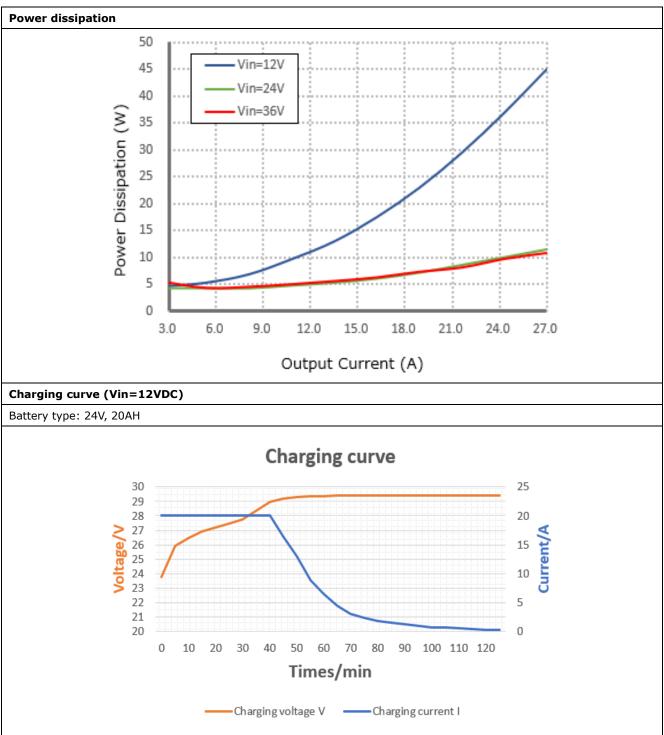
►RS485 Communication Function (optional)

- 1, Input undervoltage and overvoltage protection point and recovery point can be set (customized for different application scenarios)
- 2, Adjustable output voltage 10-50V (customized charging curve for different types and capacities of batteries).
- 3, Adjustable output current 1A-30A (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, Real-time reporting of input and output operating parameters(protection alarms).
- 8, All settable parameters have a power-down storage function.

►Function & Safety					
Short circuit protection	YES (Automatic recovery)				
Over voltage protection	YES (Automatic recovery)				
Over current protection	YES (Automatic recovery)				
Quer temperature protection	YES(Automatic derating of output charging power for high temperatures,				
Over temperature protection	refer to derating curve)				
Anti electric strength	Input to shell	≥ 500V	Leakage current \leq 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=12V/24V/36V			

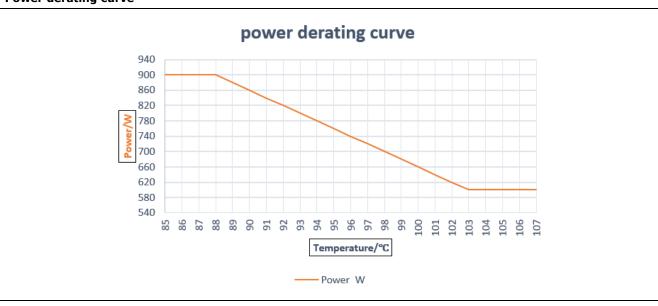








Power derating curve



How it works

Vehicle-to-battery (V2B), Battery-to-vehicle (B2V)



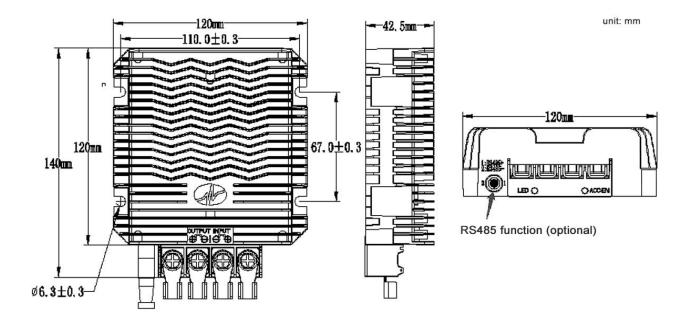
Dual battery system: Battery-to-battery (B2B)



With a WG-24BC900M bidirectional charger, you can charge your dual battery system, and charge your car with the auxiliary battery.



Dimension



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