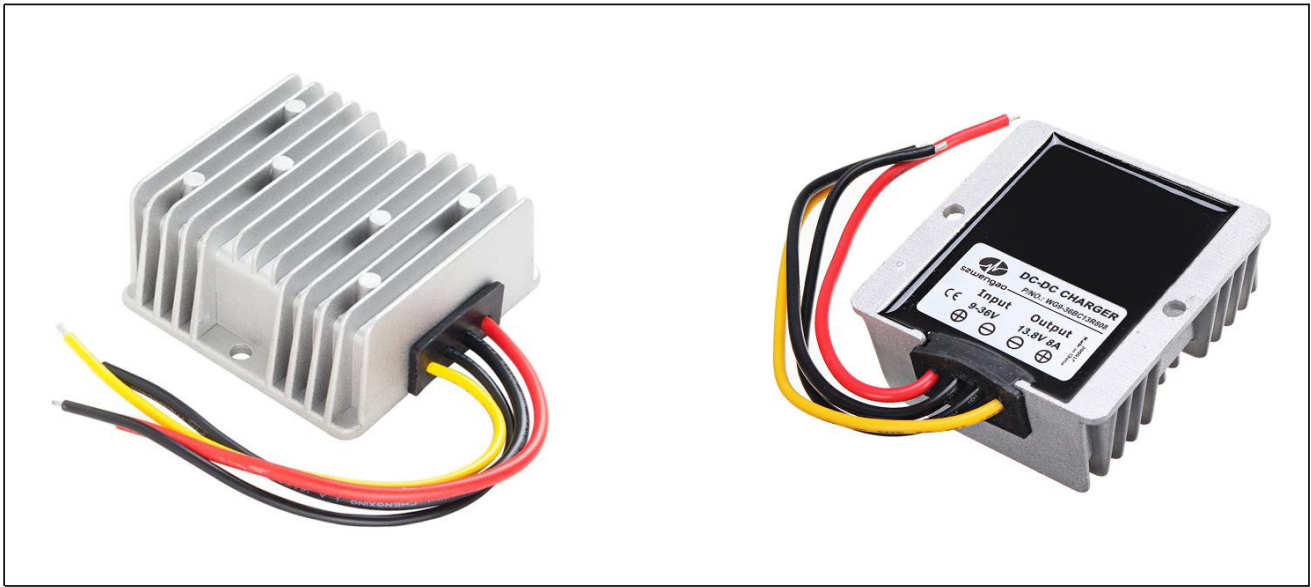




The battery charger adopts fully closed pouring and sealing heat-conducting silica gel process, with protection grade up to IP67, good shock resistance, good heat dissipation performance and long service life. The WG8-36BC13R808 are applicable to AGM battery, lead-acid battery, nickel metal hydride battery, etc., and can be used for 12v battery pack cycle charging of electric vehicles, motorcycles, sightseeing vehicles, forklifts, logistics vehicles, golf carts, ships, communication equipment, etc.



Key Features

- * Design meeting by CE, RoHS, ISO9001-2015
- * Special design for Lead-acid batteries and AGM 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 cables diversify, 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

| | |
|-----------------------|-------------------------------------|
| WG8-36BC13R808 | WG : "szwengao" company name |
| | 8-36 : Input voltage range |
| | 13R8 : Charging voltage |
| | BC : Battery Charger |
| | 08 : Charging current |



szwengao

DC-DC Lead-acid Battery Charger Specification

Model: WG8-36BC13R808

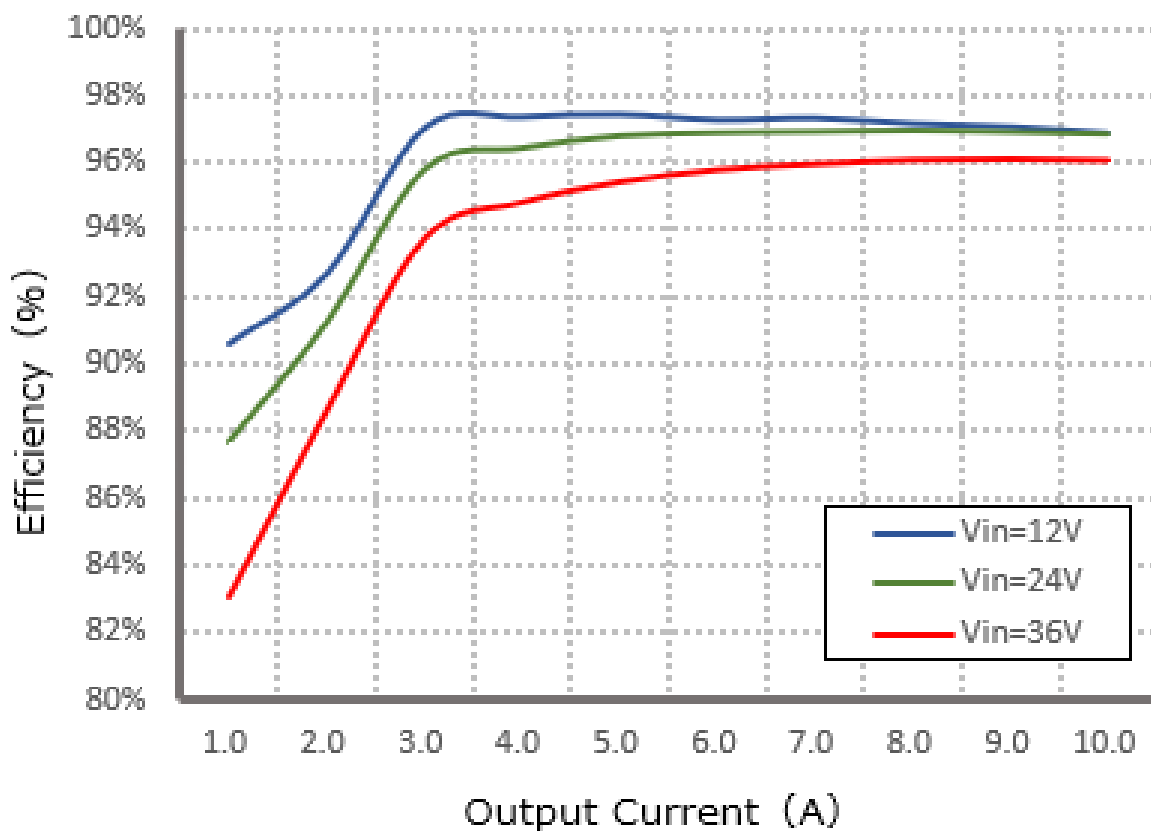
| Specifications | | |
|----------------------------|---|--|
| Model No. | WG9-36BC13R808 | |
| Battery type | Lead acid battery | |
| Max. output DC voltage | 13.8V±0.2V | |
| Output current | 8A±3% | |
| DC input rated voltage | 12V/24V DC (battery) | |
| DC input voltage range | 8-36VDC | |
| DC input max. voltage | 44VDC | |
| Input lowvoltage shutdown | 7-8VDC (accept custom) | |
| Input lowvoltage recovery | 8-9VDC (accept custom) | |
| Input fuse type | 30A (Unit input postive has built-in fuses) | |
| Max. input current | 19A (Vin=8V, Iout=10A) | |
| CC (constant current) | ≤13.8V, 110W | |
| CV (constant voltage) | 13.8V, 110W ↓ | |
| No load current | 58mA (Vin=12VDC) | |
| Ignition shutdown(ACC OFF) | 7mA (Vin=12VDC) | |
| Battery leakage current | 0.35mA | |
| Anti backflow function | YES | |
| Float charging | NO | |
| Ignition wire(ACC wire) | Optional (8-36VDC ON, 0-8VDC OFF) | |
| Power efficiency | 96% @ (Vin=12VDC) | |
| Ripple & Noise | 50-300mVp-p | |
| Working temperature | -40℃ ~ +55℃ | |
| Waterproof level | IP67 | |
| Dimension | 74*74*32mm (2.91*2.91*1.26 inch) | |
| Weight | ≤300g | |
| Input cable type | 14AWG | If the wire length is greater than 1m, it is recommended to use a thicker wire diameter. |
| Output cable type | 16AWG | |
| 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 shell | ≥ 500V | Leakage current ≤ 3.5mA, 1min, no breakdown, no arcing |
| | Output to shell | | |
| Insulation resistance | Input to Shell | ≥10MΩ | Test voltage = 500V |
| | Output to Shell | | |
| MTBF | ≥ 200,000H | Vin=12V/24V | |

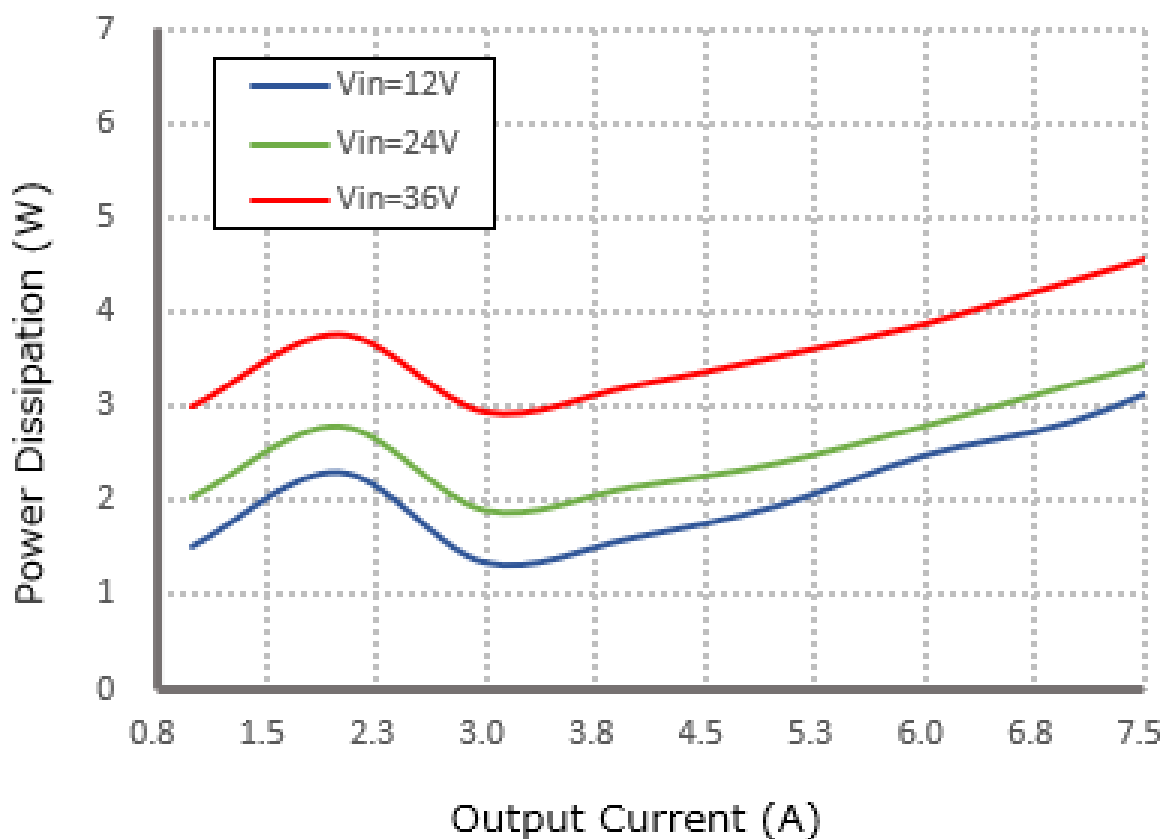


▶ Characteristic Curves

Efficiency



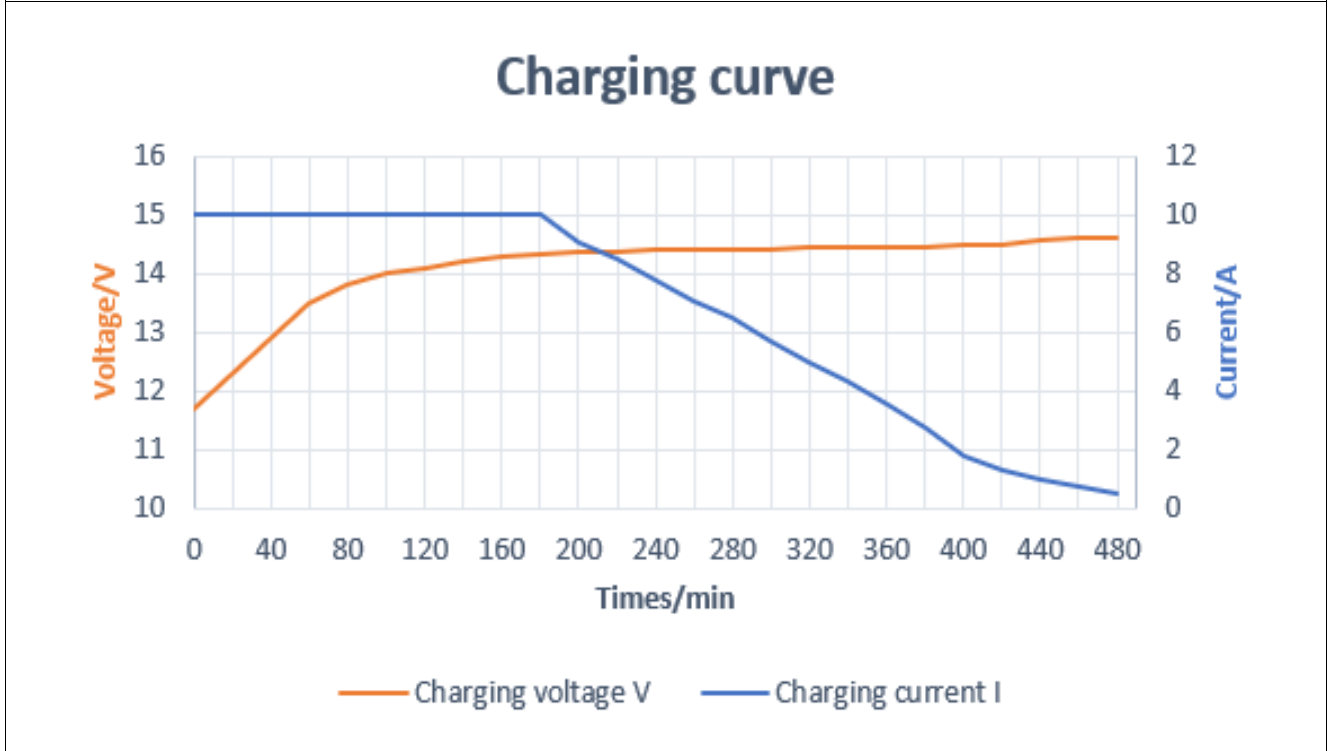
Power dissipation





Charging curve (Vin=12VDC)

Battery type: 12V, 60AH(AGM)



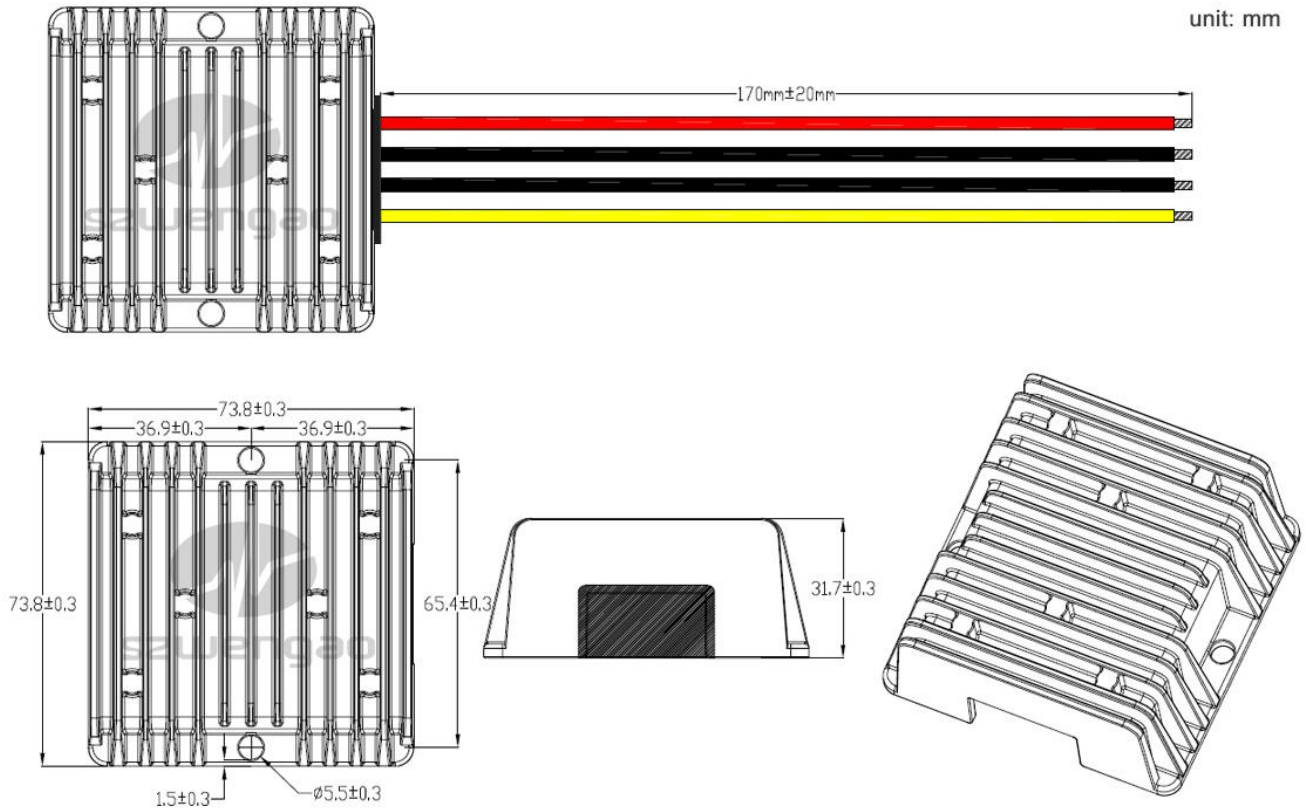


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DC-DC Lead-acid Battery Charger Specification

Model: WG8-36BC13R808

Dimension



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