Smart Battery Isolator

**WM BSM030**

L×W×H(mm):131×90×86


## Features

- Prevent loads on auxiliary battery from draining the main battery;
- Works with all alternator types, No diode efficiency lost;
- Reduces charging system workload by not connecting auxiliary battery until primary battery is charged to 13.2V;
- Lower strain on expensive charging components extends their useful life;
- Allows bi-directional charging from alternator of from shore/campground power charger/converter when available;
- Simple installation - Connect to main battery, auxiliary battery, and ground;
- LED status indicator, Smaller，lighter，less heat generated.

## Ordering Information

| WM BSM030 | -400 | - 12 | -XXX |
|---|---|---|---|
| 1 | 2 | 3 | 4 |

1 Part number：WM BSM030

2Ampere Continue ：400：400A

3Input rated Voltage(VDC)：12: 12V，24: 24V

4 Time parameter can be set according to customer's special needs

## Performance parameter

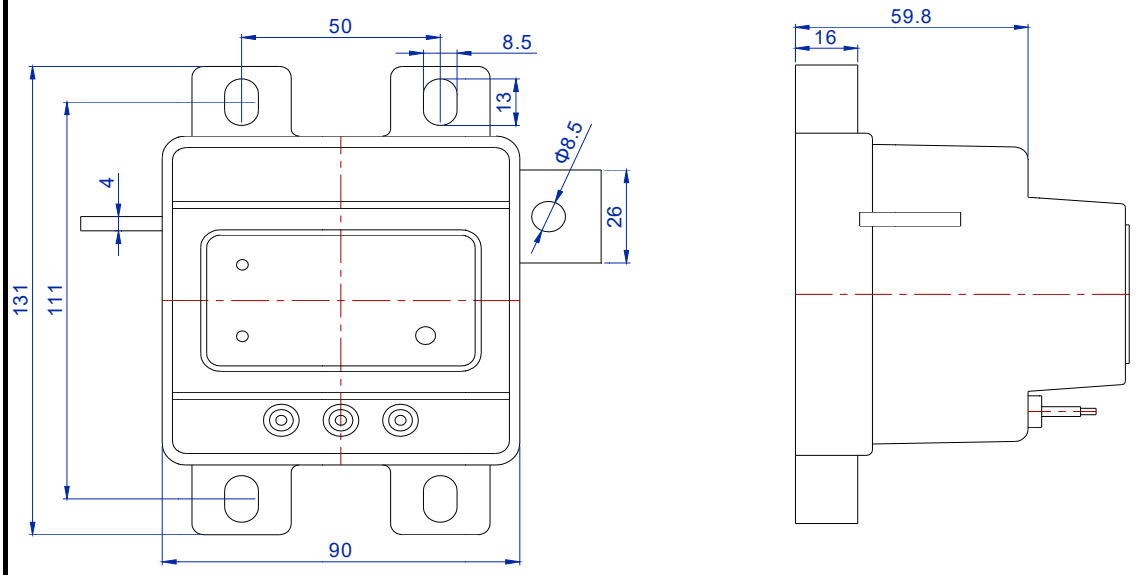
| | | Min | Typical | Max | Operate Time | Release Time |
|---|---|---|---|---|---|---|
| Normal input voltage | 12VDC | 9VDC | | 16VDC | | |
| | 24VDC | 18VDC | | 32VDC | | |
| Connect voltage(NF*) | 12VDC | | ≥13.2V | | 10 s | |
| | 24VDC | | ≥26.4V | | 10 s | |
| Disconnect voltage(NF**) | 12VDC | | ≤12.7V | | | 10 S |
| | 24VDC | | ≤25.4V | | | 10 S |
| Emergency start | 12VDC | | | | 0 s | 60 s（U<12.7V） |
| | 24VDC | | | | 0 s | 60 s（U<25.4V） |
| Continuous current | | | 400A | | | |
| Quiescent current | | | 5mA | 8mA | Relay off，start signal input open or grounded | |
| Battery terminals | | **Specification** | | | | |
| | | 4mm copper | | | | |

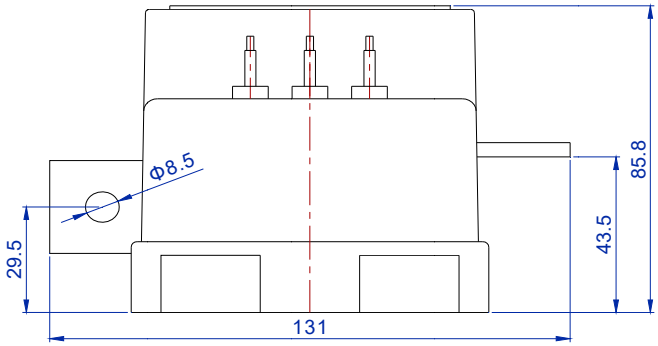
## Operation condition

| | | |
|---|---|---|
| Operating temperature range | -40℃~ +85℃ | Operating condition |
| Ingress protection | IP65 | Per IEC |
| Humidity | 0 to 90% RH | |
| Vibration resistance | 10~500Hz | per SAE J1455 |
| Shock | | per SAE J1455 |
| Thermal shock | | per SAE J1455 |
| EMI/RF | | per SAE J1455& SAE J1113 |
| Weight(Approx.) | 660g | |

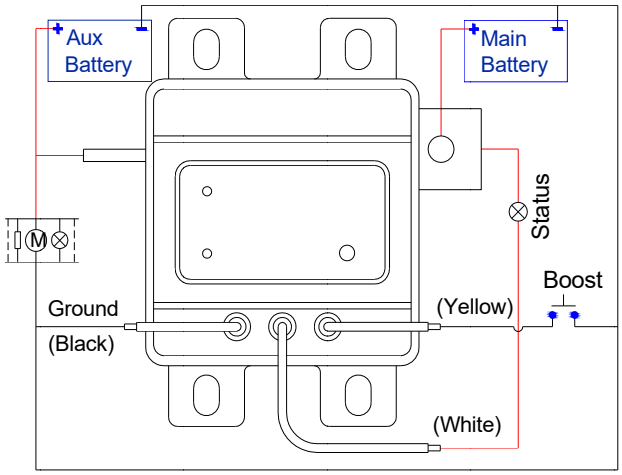
## Layout (Bottom views, Unit: mm)

Dimensions / Wiring diagram(Bottom views)




Terminal Layout




Wiring diagram (Bottom views)

Note: the anode feet of the isolator can answer the main battery or secondary battery, their position can replace each other.