

Smart Battery Isolator WM BSM050

L×W×H(mm):72×72×36



Features

- Prevent loads on auxiliary battery from draining the main battery;
- Works with all alternator types, No diode efficiency loss;
- 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;
- Smaller, lighter, less heat generated;
- Applicable for 12V and 24V system.

Ordering Information

WM BSM	<u>)50</u> - <u>160</u>	- <u>12V</u>	- <u>XXX</u>
1	2	3	4

1 Part number: WM BSM050

2Input rated Voltage(VDC): 12V: 12VDC; 24V: 24VDC 3Ampere Continue: 160A(12VDC), 100A(24VDC)

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

Performance parameter

		Min	Typical	Max	Operate Time	Release Time
Named input valtage	12VDC	9VDC		16VDC		
Normal input voltage	24VDC	18VDC		32VDC		
Commont voltage(NE*)	12VDC		≥13.2V		10 s	
Connect voltage(NF*)	24VDC		≥26.4V		10 s	
Disconnect voltage(NF**)	12VDC		≤12.7V			10 S
Disconnect voltage(NF··)	24VDC		≤25.4V			10 S
Emorgonov start	12VDC				0 s	60 s (U<12.7V)
Emergency start	24VDC				0 s	60 s (U<25.4V)
Continuous current			160A			
Quiescent current			5mA	8mA	Relay off, start signal input open or grounded	
Battery terminals	Specification			Torque		
battery terminals		5/16-24			50 in-lbs (5.78 Nm)	

Operation condition

Operating temperature range	-40°C∼ +85°C	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.)	160g		



Layout (Bottom views, Unit: mm)

