WBM Modular Smart Shunt

Equipped with high performance measuring

Datasheet

High Precision Battery Monitor

The WBM Modular Smart Shunt help users to get best service life of the battery bank.

- Optimized footprint for perfect integration with our DC Modular series of high current busbars and fuseholders.
- Large amount of additional features to optimally supervise your battery system and control external equipment
- The WBM Modular Smart Shunt is compatible with lead based and Lithium (LiFePO4) based batteries.

Whisper Power

Generating Confidence

Generating Confidence

		WBM MODULAR SMART SHUNT
		40290313
MAIN SPECIFICATIONS		
Parameter		Smart Shunt
Supply voltage range		7..70 Vdc
Supply current (@ 12 V / 24 V / 48 V)		10mA / 6mA / 5mA
Input voltage range main battery (+B1)		7..70 Vdc[1]
Input voltage range second and third battery (+B2, +B3)		1..70 Vdc
Input current range		-600..+600 A[2]
Battery capacity range		10..10000 Ah
Operating temperature range		-20..+50°C
Storage temperature range		-30..+70°C
Readout resolution:	Voltage (0..70 V)	± 0.01V
	Current (0..10 A)	± 0.01A
	Current (10..100 A)	± 0.1A
	Current (100..600 A)	± 1A
	State of Charge (0..100%)	± 1%
	Time remaining (0..24hrs)	± 1min
	Time remaining (24..240hrs)	± 1hr
	Amphours (0..10000 Ah)	± 0.01 Ah..10 Ah (variable)
	Power (0..42 kW)	± 0.01 W..1 kW (variable)
	Temperature (-20°C..+50°C)	± 0.5°C
Voltage measurement accuracy		± 0.3%
Current measurement accuracy		± 0.4%
DIMENSIONS		
Shunt dimensions:	Footprint	100 x 100 mm
	Base height	24.0 mm
	Total height	64.5 mm
	Weight	290 grams
Display dimensions:	Front panel	Ø 64.0 mm
	Body diameter	Ø 51.5 mm
	Total depth	36.0 mm
	Weight	70 grams
PROTECTION		
Protection class		IP20 (shunt vertically mounted) IP65 (CDU front panel only)
Standards		CE certified (EMC Directive 2014/30/EU) including EN50498 Automotive EMC

All specifications are subject to change without notice

1) When input +B1 is only used for supply and +B2 for main battery voltage measurement, the input voltage range for the main battery is 1..70Vdc.
2) +/- 600A is the maximum rating for 20 minutes. The continuous input current range is +/- 500A.