

Battery controller for determining battery status

Electrical Data

Voltage supply	17 ... 150 VDC, Pulse strength 200 V for 10 seconds
Average current consumption	7,5 mA @ 150 V ... 70 mA @ 17 V
Over voltage switch off	> 203 V
Under voltage switch off	< 16 V
Current measuring range	max. 500 A permanent, shunt measuring
Depolarization safe, over voltage protection	

Mechanical Data

Dimensions base housing	120 mm x 52 mm x 26 mm (L x B x H)
Dimensions satellite housing	82 mm x 50 mm x 32 mm (L x B x H)
Weight complete	340 g
Installation range	Cable diameter min. 25 mm ² to max. 95 mm ²

Measuring values

Battery voltage, complete	17 ... 200 VDC, resolution 10 mV
Measuring inaccuracy from end value:	0,1% @25°C + ±0,004%/K
Battery medium voltage	0 ... 200 VDC, resolution 10 mV
Measuring inaccuracy from end value:	0,1% @25°C + ±0,004%/K
Battery current	0 ... ±2100 A
Measuring inaccuracy @25°C:	1 % + ±0,02%/K @ ±10 ... 2100 A
	5 % + ±0,02%/K @ ±2 ... 10 A
	20 % + ±0,02%/K @ ±0,5 ... 2 A

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Battery temperature - 30 °C ...100 °C, 1 K, resolution 0,1 K

Electrolyte level U_B : 11,3 V, trigger current 55 μ A, max. current 100 μ A

Data processing

DSP Clock 40 MHz

Memory size 8 MB, partly 4 MB for ring buffer

Memory values I, U, ϑ

Memory interval 10 sec. (default)

Ring buffer 30 days @ 10 sec. memory interval

Real time clock Accuracy ± 2 sec. / day

Buffer time 30 days

Interfaces

NFC 1 kB, 16 mm writing- / reading distance

Bluetooth 4.0 Low Energy / 2.0

HOPPECKE Battery Bus 60 Baud, 12 V level



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environmental conditions

Temperature range usage	- 30 °C ... 80 °C
Temperature range storage	- 30 °C ... 80 °C
Chemical resistance	sulfuric acid, 60 % @ 50 °C
Housing protection level	IP 69K

Applied standards

DIN EN 12895:2015-12

DIN EN 60721-3-3:1995-09

DIN EN 55022:2011-12

DIN EN 55011:2014-11

DIN EN 61000-6-2:2006-03

DIN EN 61000-6-3:2011-09

DIN EN 60068-2-6:2008-10, vibration

DIN EN 60068-2-27:2010-02, shock

DIN EN 60068-2-31:2009-04, fall: shocks due to improper handling

DIN EN 62485-3:2015-09

UL 583

Status: 31.07.2024

Subject to change without notice

