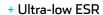


DATA SHEET

SkelMod 170V



- + Long lifetime 1 million duty cycles
- + Integrated Ultracapacitor Management System for effective cell balancing
- + CAN bus communication
- + Liquid
- + High
- + IP66 Protection

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2.20	•			
		• • • • •	1.0%	
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d cooling				
Power output				

SMA170V53FAF TECHNICAL SPECIFICATIONS	UNIT	VALUE	
Electrical			
Rated voltage V _R Surge voltage Minimum monitoring voltage Rated capacitance DC 10 ms ESR (~AC100 Hz), rated DC 1s ESR (~AC 0.1 Hz), rated Maximum series voltage Maximum peak current (for 1 s duration) ¹ Short circuit current Maximum stored energy ² Cells in total Cell type	V V F mΩ mΩ VDC A kA Wh pcs.	170 180 30 53 10.3 12.7 920 2693 12.2 212.7 60 SCA3200	
Life		3CAJ200	
Life at 170 V and maximum operating temperature Shelf life @ RT, uncharged Projected cycle life at RT between 170 V and 85 V Capacitance decrease 20% from rated value; resistance increase 100% from rated value	1500 h 10 years 1 000 000 cycles		
Temperature	/O.O.C	- 05	
Operating temperature range	-40 °C to +65) ⁽ (
Ultracapacitor Management System Cell balancing method Temperature reading Voltage monitoring/balancing Communication interface Nominal auxiliary supply voltage Auxiliary supply voltage range Auxiliary supply current	Controlled Resistive Balancing 10 NTC sensors Individual Cell CAN bus 2.0B 24 V 16-33 V max. 0.02 A		
Connectors			
Power connectors Auxiliary connector (IN)	Amphenol Industrial PowerLokTM 300 (300 A continuous) Phoenix Contact Male M12 A coded 5-pos		
Auxiliary connector (OUT)	Phoenix Contact Female M12 A coded 5-pos		

Ground connector

Liquid cooling connector

M12 male thread

Hole G 3/8

Skeleton Technologies GmbH

Sales and Headquarters Schücostraße 8, 01900 Großröhrsdorf, Germany info@skeletontech.com

www.skeletontech.com

testing are subject to Standard Terms of Service (ToS) available on

recommendations

risk of condensation within the module.

 For ultracapacitors, the power values are often calculated using nominal resistance values (DC 10 ms ESR). For engineering purposes, practical values based on total resistance (DC 1s ESR) are preferred.

Mounting Recommendation: Please refer to the user manual for installation

+ Rapid cooldown of the module using the liquid cooling needs to be avoided due to the

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