SkelMod 162V62F

+ 162V DC nominal voltage

- + Ultra-low ESR
- + Long lifetime 1 million duty cycles
- + High power output



Temperature and Life

General Specifications	Value	Unit
Electrical		
Rated voltage	162	V
Absolute maximum voltage	170	V
Rated capacitance	62	F
Rated DC 10ms ESR	10.9	mΩ
Rated DC 1s ESR	13.0	mΩ
Rated maximum peak current (for 1 s duration) ^{1,9}	2.78	kA
Typical short circuit current (For informational purposes - do not use as operating current.)	14.9	kA
Maximum stored energy ²	225	Wh
Cells in total	54	pcs
Cell configuration	54s1p	
Cell type	SCH3400	

Physical parameters	Value	Unit
Mass. Typical	35.0	kg
Dimensions (LxWxH)	540 x 483 x	
Width indicates the dimensions for the front panel, the rest of the module is narrower and usable in a 19" rack.	172	mm

Operating temperature range* Minimum -40 °C Maximum +60 °C Storage temperature range (uncharged) Minimum °C -40 Maximum +50 °C Life Lifetime @ 162V and maximum operating 1500 Hours temperature Storage life @ RT, uncharged 10 Years Projected cycle life @ RT, between V_{R} and V_{R} / 2 1,000,000 Cycles

Value

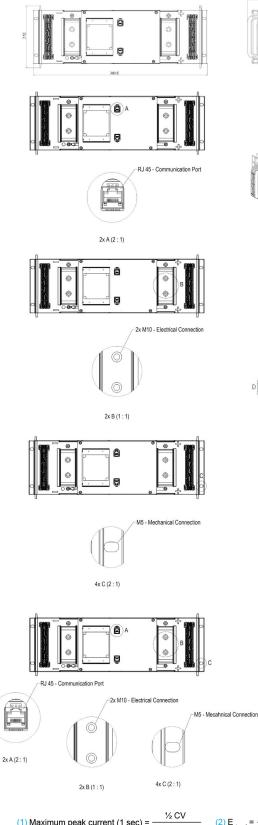
Unit

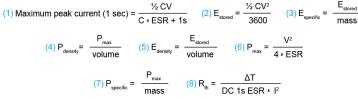
Power

Rated nominal power, calculated from 10 ms ESR				
Power ⁶	601	kW		
Rated practical power, calculated from 1 s ESR				
Power ⁶	504	kW		

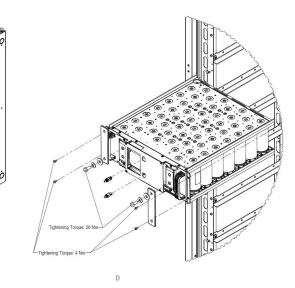
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* For maximum series voltage IE32 (EN 60721-3-3) requirements must be followed. For lower temperature contact Skeleton Technologies ** Inrush current for the auxiliary supply: 0.18A *** Thermal parameters given for cooling airflow rate of 85CFM

(9) The stated maximum peak current should not be exceeded during use. If the limit is to be exceeded by the customer, Skeleton must be consulted beforehand and give approval for the exceeded power load.

(10) These values of current refer to begin of life conditions of the product, for system design 200% ESR should be considered.

Standard markings

- + Name of manufacturer, part number, serial number, rated voltage
- + Rated capacitance, negative and positive terminals, warning marking
- + Total energy in watt-hours

Notes

+ All information provided on this data sheet and all subsequent supercapacitors sales and testing are subject to Standard Terms of Service (ToS) available on www.skeletontech.com, document General Terms of Sale for Skeleton Technologies GmbH

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