



NESSCAP® Ultracapacitor Products 125V MODULE

Features

- 125V module with rated capacitance of 62F
- Highest power performance with ultra-low internal resistance
- Integrated UMU (Ultracapacitor Management Unit)
 - Individual cell balancing
 - Voltage and temperature diagnosis by logic output
 - Optional CAN or RS communication interface
- Rugged design to withstand harsh environments
- Typical applications
 - Transportation and automotive
 - Industrial, UPS, DVR and telecommunication



(Shown with the fan option)

Spec.

Rated Capacitance (F)	Internal Resistance (mΩ)		Max. Current ¹ (A)	Leakage Current (mA)	Stored Energy (Wh)	Specific Energy (Wh/kg)	Nominal Weight (kg)	Part Number
	AC (100Hz)	DC						
Discharge with const. current at 25°C			1 sec discharge to 1/2V _R	after 72 hrs, at 25°C	at V _R	Gravimetric		
62	< 12.7	< 15.0	1,850	< 5.2	134.5	2.36	57	EMHSR-0062C0-125R0S

Rated Voltage, V _R		125 V DC	
Surge Voltage		136.8 V DC	
Capacitance Tolerance		0% / +20%	
Operating Temperature Range		-40 ~ 65 °C	ΔCAP < 5% and ΔESR < 150% of initial value measured at 25°C
Storage Temperature Range		-40 ~ 70 °C	
Lifetime	Endurance	1,500 hours at rated voltage and 65°C	ΔCAP < 20% and ΔESR < 60% of specified value
	At Room Temperature	10 years at rated voltage ²	ΔCAP < 30% and ΔESR < 150% of specified value
	Shelf Life	1,500 hours at 65°C without load	ΔCAP < 15% and ΔESR < 40% of specified value
Cycle Life (25°C)		1,000,000 cycles between rated voltage and half rated voltage using constant current charge and discharge	ΔCAP < 30% and ΔESR < 150% of specified value
Electronics (Ultracapacitor Management Unit)	Balancing	Active balancing	
	Monitoring	Over Voltage & Over Temperature	
	Communication	High/Low Logic signal or Optional CAN 2.0B, J1939 or RS485	Requires external 5V DC input, configurable to user specific requirements
	Signal Output	8 pin Deutsch connector	
Enclosure	Output Terminals	M8 screw holes	Located inside cover
	Insulation Coordination	Rated insulation voltage : 1 kV DC or 2.8kV AC (50Hz, 10sec) Rated impulse withstand voltage : 6 kV DC	IEC 61287-1 (Cat: OV II)
	Protection by Enclosure	IP 55 (with fans), cells protected in IP65 enclosure	IEC 60529
	Fan Rating	24V, < 30W each	Fan option include 2 fans
	Mounting	8 points	4 mounting locations with 2x M8 size holes each

¹ – Warning: this value should not be used as continuous current

² – Lifetime at room temperature is a provisional value

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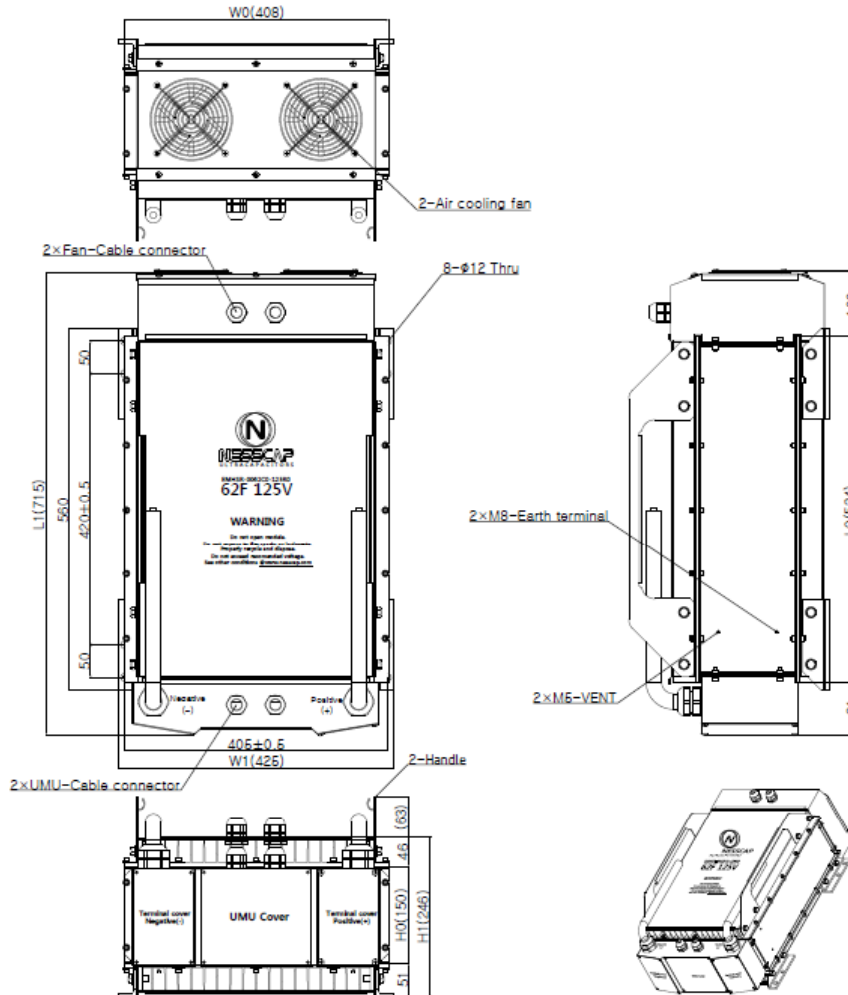
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ISO 9001, ISO 14001 and TS 16949 certified



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Dimension



Dimensions in mm (not to scale)

Part Number	Capacitance (F)	Dimensions (mm) / Weight(Kg)					
		L0(±1.0)	L1(±4.0)	W0(±1.0)	W1(±2.0)	H0(±1.0)	H1(±2.0)
EMHSR-0062C0-125R0S	62	534	715	408	426	150	246

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