



NESSCAP® Ultracapacitor Products 64V MODULES

Features

- 64V module with rated capacitance of 83F and 125F
- Highest power performance with ultra-low internal resistance
- Integrated UMU (Ultracapacitor Management Unit)
 - Individual cell balancing
 - Voltage diagnosis by logic output and temperature monitoring
- Rugged design to withstand harsh environments
- Typical applications
 - Transportation and automotive
 - Industrial, UPS, DVR and telecommunication



Product & 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 constant current at 25°C			1 sec discharge rate to 1/2V _R	72 hours, 25°C	at V _R	Gravimetric		
83	8.1	9.5	1460	< 4.2	48.4	3.22	15	EMHSR-0083C0-064R0S
125	6.4	7.5	2030	< 5.2	72.9	3.83	19	EMHSR-0125C0-064R0S

Rated Voltage, V _R		64.8 V DC		
Surge Voltage		68.4 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
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 : High and Low signal Temperature : NTC		Requires external 5V DC input
	Signal Output	4 pin connector		
Enclosure	Output Terminals	M8 screw holes		
	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 65 (Dust-tight and protected against water jets)		IEC 60529
	Vibration Resistance	SAE J2380		
	Mounting	8 locations		8x M8 mounting points on the top and bottom covers

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

² - Lifetime at room temperature is a provisional value

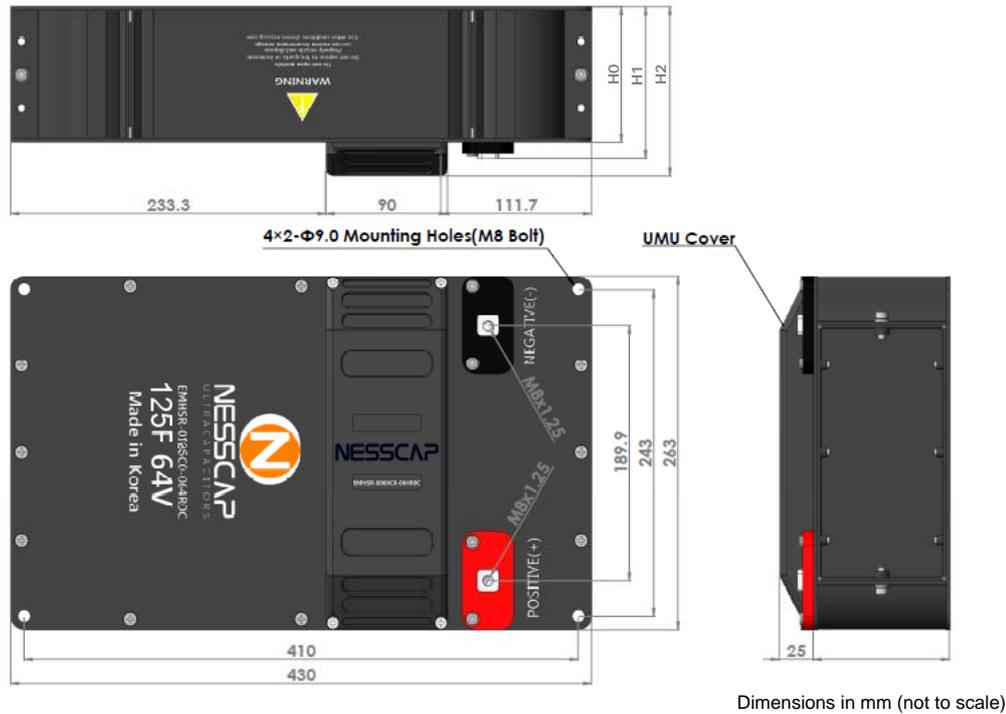
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Dimension



Part Number	Capacitance (F)	Dimensions (mm)					
		L	W0	W1	H0	H1	H2
EMHSR-0083C0-064R0S	83	430	243	263	118	130	143
EMHSR-0125C0-064R0S	125	430	243	263	154	166	179

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ISO 9001, ISO 14001 and TS 16949 certified