

MICRO TEL

EN-8k-48-1.7C-1C-X-EMTEL



A rugged, long-life supercapacitor-based ENCAP module engineered for telecom, industrial, and off-grid power applications. It offers exceptional fire safety, ultra-fast charge/discharge, and a 25-year calendar life.

Performance Specifications

DC Energy	8kWh
Voltage Range	43.2Vdc to 60.8Vdc
DC Voltage (Nominal)	48Vdc
Internal Resistance	<4 mΩ

Cell Specifications

Technology	Encapsulated Cell
Nominal Cell Voltage	6.4 ~6.6Vdc / Cell (Encapsulated) 1/2 + 0.12V Envelope

Charge & Discharge Characteristics

Maximum Continuous Charge Current	283A (~1.7C)
Maximum Continuous Discharge Current	283A (~1.7C)
Charge/Discharge Method	CC/CP/VP

Safety Performance

Short Circuit Protection Over/Under Voltage Over Current Over Temperature	Electronic Switching, Terminal Cut-off
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Smart Features

Alarm	Buzzer alarm in the event of Over/under-Voltage, Over-Current, Over Temperature
Communication	CANBUS , RS232, RS485
Dry Contacts Output	Programmable Dry Contacts
OLED Display (With Encontrol)	Monitor Module

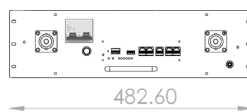
EN-Connect Software

Module Monitoring

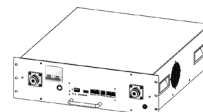
Total Voltage
Individual Cell Voltages
Current
Temperatures
SOC and Energy Consumed

Mechanical Specifications

Dimensions (W x H x D) mm	482.60 x 133 x 505
Weight (kg)	43
Module Casing Material	GI Powdered
Terminal Type	300A Terminal Post



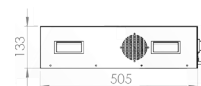
Front View



Isometric View



Top View



Side View

Module Environmental Specifications

Operating Temperature Range	-30°C ~ +70°C
Operating Humidity	Non-Condensing

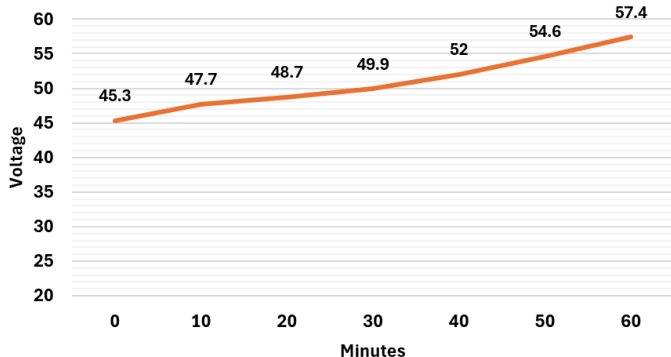
Service Life

Cells Projected Cycle Life	500,000 Cycles
Cells Projected Calendar Life	25 Years
Module Projected Shelf Life	10 Years
Warehousing	Can be stored at any SOC without affecting cycle life

Parallel Connection: All Modules must be at 100% SOC before connecting in parallel. There is no limit on the number of Modules that can be connected in parallel.

Series-Parallel Connection: Modules can not be connected in series in any condition.

Charge Voltage @ 1C



Discharge Voltage @ 1C

