Emtel Part Number: EN-7.1k-48-1.7-1C-X-EMTEL



A rugged, long-life Electrostatic Energy Storage ENCAP Module based upon Hybrid Supercapacitor technlogy and engineered for Telecom, Residential, industrial, and off-grid power applications. It offers exceptional performamnce, fire safety, thermal stability, fast charge/discharge, and long 25-year calendar life.

Performance Specifications		
DC Energy	7100Wh	
Voltage Range	44Vdc to 55Vdc	
DC Voltage (Nominal)	48Vdc	
Internal Resistance	<4 mΩ	
Cell Specifications		
Technology	Hybrid Cell	
Nominal Cell Voltage	6.75 ~8.4Vdc, Equalizer 3.8Vdc	
Charge & Discharge Characteristics		
Maximum Continuous Charge Current	250A (~1.7C)	
Maximum Continuous Discharge Current	250A (~1.7C)	
Charge/Discharge Method	CC/CP/VP	
Safety Performance		
Circuit Breaker Protection	125A 2P Breaker	
Fuse Protection	300A	
Short Circuit Protection	Instant Electronic Switching, Terminal Cut-off	
Over/Under Voltage, Over Current	Bi-Directional Solid State Relay, Seitching/Terminal Cut-off	
Over Temperature	Electronic Switching, Terminal Cut-off	
Smart Features		

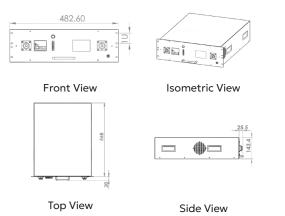
Smart reatures		
Alarm	Buzzer alarm in the event of Over/under-Voltage, Over-Current, Over Temperature	
OLED Display	Monitoring with touch panel	
Communication	WIFI/UDP	
Dry Contacts Output	2 x Programmable Dry Contacts	

EN-Connect Software

Total Voltage Individual Cell Voltages Module Monitoring Current Temperatures SOC and Energy Consumed

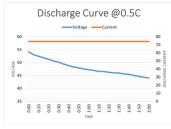


Mechanical Specifications		
Dimensions (W x H x D) mm	482.60 x 143.4 x 568	
Weight (kg)	43	
Module Casing Material	GI Powdered	
Terminal Type	300A Terminal Post	



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	
Charge & Discharge Curves		





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

Series-Parallel Connection: Modules cannot be connected in series-parallel combination under any circumstance.

