BEYOND BATTERIES

TECHNICAL DATA SHEET ENCAP MICRO TEL 8KWH-48V EMT-8k-48-1C-2PA-X-X-PIB_2V0_GEN1

VERSION 2 | REVISION 0 | RELEASE DATE: 23rd April 25

EFFICIENT

- Highly Efficient: > 95% RTE (Round Trip Efficiency)
- 100% DOD (Depth of Discharge)
- 500,000 Cell Life Cycles

SAFE & RELIABLE

- Wide Operating Temperature Range
- Deployable in Various Environments including High Altitudes
- No Thermal Runaway Risk

TECHNICAL DATA SHEET

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PERFORMANCE SPECIFICATIONS

DC Energy	8kWh	
Voltage Range	43Vdc to 58Vdc	
DC Voltage (Nominal)	48Vdc	
Internal Resistance	< 4 mili Ohms	Front View
CELL SPECIFICATIONS		
Technology	Encapsulated Cell	ENCAP MICHO
CHARGE CHARACTERISTICS		
Maximum Continuous Charge Current	170A (~1C)	
Charging Method	CC/CP/VP	Isometric View
DISCHARGE SPECIFICATIONS		
Maximum Continuous Discharge Current	170A (~1C)	
Discharging Method	CC/CP/VP	
EN-CONNECT SOFTWARE ²		
Module Monitoring ²	Total Voltage, Individual Cell Voltages, Current,	
	Temperatures, SOC and Energy Consumed	·∧ Ø.ØØA · · · · · · · · · · · · · · · · · ·
MODULE ENVIRONMENTAL SPE	CIFICATIONS	Disch. 💿 DN Charge 💽 DN A. No Alarm 🛛 🚫 – 💪 (AN, 8) 😤 🗒
Operating Temperature Range	-30°C~ +70°C	
Operating Humidity	Non-Condensing	ENCONTROL ²

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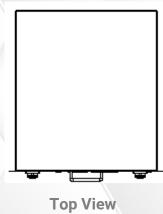
MECHANICAL SPECIFICATION	15	o
Dimensions ¹ (W x H x D) mm	483 x 133 x 505	
Weight (kg)	43	• • • • • • • • • • • • • • • • • • •
Module Casing Material	GI Powdered	Front View
Terminal Type	300A Terminal Post	
SMART FEATURES		
OLED Display (With Encontrol) ²	Monitor Module	
Communication	CANBUS , RS485	
Alarm ²	Buzzer alarm in the event of Over/under-Voltage, Over-	Isometric View
	Current, Over Temperature	
Dry Contacts Output	Programmable Dry Contacts	
SAFETY PERFORMANCE		
Cicuit Breaker	2P 125A	505 Side View
Short Circuit Protection	Electronic Switching, Terminal Cut-off	
Over/under Voltage	Electronic Switching, Terminal Cut-off	
Over Current	Electronic Switching, Terminal Cut-off	
Over Temperature	Electronic Switching, Terminal Cut-off	
SERVICE LIFE		
Cells Projected Cycle Life ³	500,000 cycles	

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This technical data sheet may change without notice and at the sole discretion of Enercap Power Industries LLC

TECHNICAL DATA SHEET

EMT-8k-48-1C-2PA-X-X-PIB_2V0_GEN1

Cells Projected Calen	dar Life ⁴ 25 years	NOTES
Module Projected She	elf Life ⁵ 10 years	¹ Product Dimensions are for reference only and may change without
Warehousing	Can be stored at any SOC without affecting cycle	
PRECAUTIONS		² The ENCONTROL tool is an OLED display designed for Module monitoring. Please note SMART FEATURES are not part of the
Alarm	In case of alarm, immediately rectify/attend to the cause of the alarm.	standard Module and require separate purchase of ENCONTRO
Physical Damage	In case the Module is physically damaged due to any event, do not instal energize the Module under any circumstances and contact your Resel After Sales Support.	³ Projected Life of encansulated cells
Short Circuit	Ensure precautions to prevent short-circuit under all circumstances.	first operation. ⁵ Shelf Life is the Life of the Module (in years) from the date it is
Galvanic Isolation	When connecting to external devices ensure that galvanic isolation o external device(s) does not exceed 1000V.	f the Additional terms and conditions, including a limited warranty,
Series Connection	Series Connection is not allowed.	 Additional terms and conditions, including a timited warranty, will apply at the time of purchase. For critical applications, please contact your Reseller or After
Parallel Connection	All Modules must be at same voltage level before connecting in parallel There is no limit on the number of Modules that can be connected in par	 Encap Micro Tel must be operated with Encontactor and
Series-Parallel Connection	Series/Parallel Connection of the Modules is not allowed.	refer to the Enrack user manual or contact the technical support team for further guidance.