

SOLACELL 7605 Wh 48V

ZEM7K6140300CPARM

SUPERCAPACITOR ENERGY STORAGE MODULE
FOR TELECOM & OFF-GRID SYSTEM



TECHNICAL DATA SHEET

PERFORMANCE	Voltage (Nominal)	48 V
	Maximum Charge Voltage	54.6 V
	Discharge Cut-Off Voltage	40 V (Configurable)
	Total Energy	7605 W
	Continuous Discharge Current	200 A
	Peak Discharge Current	300 A (5sec)
	Continuous Charge Rate	200 A
	Cut off Current	5 A
	ESR/AC @ 1KHZ	<10 mΩ
PHYSICAL SPECS	Weight	< 60 kg
	Module Casing Material	MS/Aluminum
	Terminal Type	Anderson
	Dimensions (L x W x H)	620x 466 x 176mm
FEATURES	Alarm	Alarm for under/over Voltage, Over Current, OutofRange Temperature
SERVICE LIFE	Projected Calendar Life ³	≥30 years
	Shelf Life	10Years
SAFETY PERFORMANCE	Over/under voltage	Unit shut down
	Over Current	Unit shut down
ENVIRONMENT	Over temperature	Unit shut down
	Cell Operating Temperature ³	-20 °C to 60 °C
	Operating Humidity	Non-Condensing
ADDITIONAL	Parallel Connection	YES
	Series Connection	Custom Option
	Self-Discharge	2-3% month
	Recommended Discharge Depth Dry Contact (Generator Run)	90% Yes (Configurable Low Voltage)
Life Cycles	(Temp range-20 to 45C) 50,000	

PRODUCT SPECIFICATION SHEET

PARALLEL CONNECTION		
Maximum Parallel Connection Per Stack	10 (Increase Backup Time) 2 (Recommended)	
Parallel Connector Required	YES	
Parallel Communication	RS 485	
PROTECTIONS		
Cell Balancing	Active	Loss less active balancing
Short Circuit Protection	600A	Replace Internal Fuse
Charging Cut-off Voltage	54.6V	Charging disconnected
Discharge Protection Voltage	40V	Load disconnected
PART NUMBER: ZEM48 7605 300 CPARM		
MODEL	EM7K6	
VERSION	001T	
ENERGY	7605Wh	
VOLTAGE	48 V	
USAGE	TELECOM&SOLAR	
TERMINAL	Anderson	
DISPLAY	Module Volt, SOC, Temp	Included
COMMUNICATION	C – RS485	Included
ANTI-THEFT	G – GPS	Optional
COMPLIANCE	EN55032:2015, EN55024:2010, EN61000-4-2:2009, EN61000-4-3:2006+A1:2008+A2:2010	

(1) The temperature range indicates the range in which the supercapacitor cells can operate. The performance of the cells may vary if they are continuously operated outside a temperature range of -20°C to 60°C, and/or at C-rates higher than the maximum charge/discharge rate specified in this specification sheet.

(2) Projected life of supercapacitor cells. Cycle life will vary if cycled more than 4 times a day. Additional terms and conditions, including a limited warranty, will apply at the time of purchase.

(3) Projected Calendar life of supercapacitor cells from the date of first operation.

Note:

Specifications subject to change without prior notice.