

CAPMOD

July 2022

SPECIFICATIONS

APPLICATIONS

- High Power
- High Rate Cycling
- High Cycle Life(>1,000,000 Cycles)
- Low Maintenance

FEATURES

- Made In USA
- Large Diameter End Terminals
- Intergrated Heat Shrink
- Non-Conductive End Plates
- Highly Configurable w/6 T-Slots
- Flexible Mounting(Any Orientation)
- IP67
- -40°C to 65°C Capability

MARKETS

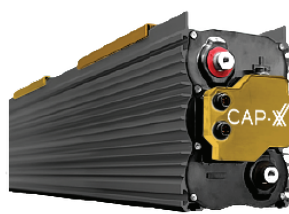
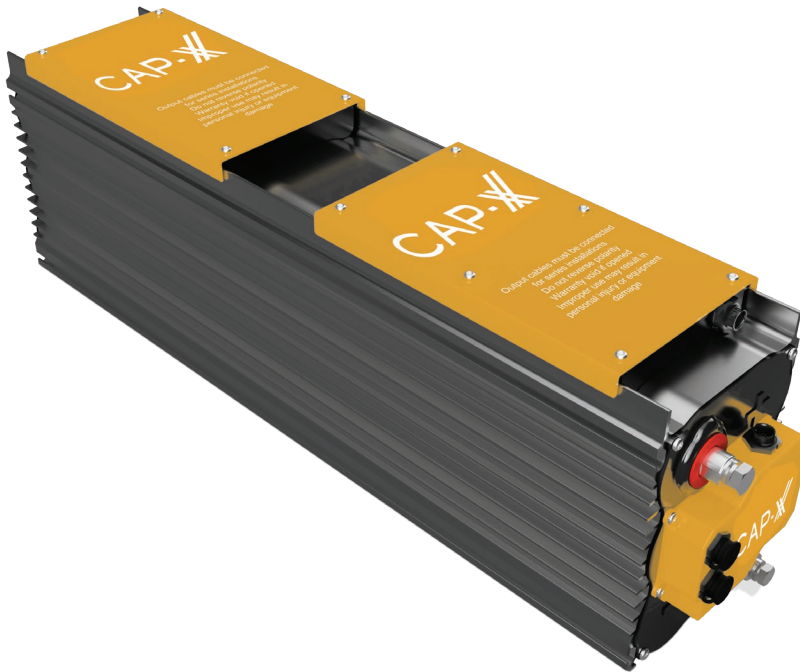
- Transportaion Subsystem
- Engine Starting
- Regen Energy Capture
- Grid/Power Correction
- UPS/Ride Through Power
- Wind Turbine Pitch Control
- Hybrid Energy Storage

MARKINGS

Products are marked with the following: Rated Voltage, Product Number, Serial Number, Name of Manufacturer, Positive and Negative Terminal Marking

BASE PART # & MONITORING OPTIONS

CAPMODvvVcccA23 + -01B Analog Temperature
-03B CAN



CAP-XX Ltd

13A Stanton Road
Seven Hills NSW 2147
sales@cap-xx.com
TEL: +61 2 9420 0690

ELECTRICAL SPECIFICATIONS

MODELS

	VOLTAGE	CAPACITANCE	DC ESR	DC ESR	AC IMPEDANCE
	[V DC], RATED/MAX	IEC [F], MIN/NORMAL	IEC [mΩ], NORMAL/MAX	10 ms [mΩ], NORMAL/MAX	1kHz [mΩ], NORMAL/MAX
CAPMOD016V200A23	16.2/17.1	192/200	1.6/1.9	2.5/3.0	1.8/2.2
CAPMOD016V333A23	16.2/17.1	319/333	1.3/1.8	1.7/2.1	1.5/1.9
CAPMOD016V500A23	16.2/17.1	480/500	1.2/1.6	1.5/1.9	1.4/1.8
CAPMOD032V100A23	32.4/34.2	96/100	3.2/3.8	5.0/6.1	3.3/4.1
CAPMOD032V166A23	32.4/34.2	159/166	2.6/3.6	3.4/4.2	2.8/3.6
CAPMOD032V250A23	32.4/34.2	240/250	2.4/3.3	3.0/3.7	2.6/3.4
CAPMOD048V066A23	48.6/51.3	63/66	4.8/5.7	7.5/9.1	4.7/5.8
CAPMOD048V111A23	48.6/51.3	106/111	3.9/5.4	5.2/6.3	4.0/5.1
CAPMOD048V166A23	48.6/51.3	159/166	3.6/5.0	4.5/5.5	3.6/4.7
CAPMOD064V050A23	64.8/68.4	48/50	6.4/7.6	10.0/12.2	6.2/7.7
CAPMOD064V083A23	64.8/68.4	79/83	5.2/7.2	6.9/8.4	5.3/6.8
CAPMOD064V125A23	64.8/68.4	120/125	4.8/6.7	6.0/7.4	4.8/6.3
CAPMOD080V040A23	81.0/85.5	38/40	8.1/9.6	12.6/15.3	7.8/9.6
CAPMOD080V066A23	81.0/85.5	63/66	6.6/9.0	8.7/10.5	6.6/8.4
CAPMOD080V100A23	81.0/85.5	96/100	6.0/8.4	7.5/9.3	6.0/7.8
CAPMOD096V033A23	97.2/102.6	31/33	9.7/11.5	15.1/18.3	9.4/11.6
CAPMOD096V055A23	97.2/102.6	52/55	7.9/10.8	10.4/12.6	7.9/10.1
CAPMOD096V083A23	97.2/102.6	79/83	7.2/10.0	9.0/11.1	7.2/9.4
CAPMOD112V028A23	113.4/119.7	26/28	11.3/13.4	17.6/21.4	10.9/13.5
CAPMOD112V047A23	113.4/119.7	45/47	9.2/12.6	12.1/14.7	9.2/11.8
CAPMOD128V025A23	129.6/136.8	24/25	12.9/15.5	20.1/24.4	12.5/15.4
CAPMOD128V041A23	129.6/136.8	39/41	10.5/14.4	13.9/16.8	10.6/13.5

ALL MODELS

UL 810A Max Operational Voltage (VDC)

Hi-Pot (VAC)

Operational Range(°C)

Continuous Current (A) [20° Rise]

Current, Short Circuit (A)

Current, Peak[1s] (A)

Resistance, Thermal (°C/W) [R_{TH}]

Terminal Size & Max Torque

2,000VDC (per series string)

5,000

-40°C to +65°C(operational) to -40°C to +70°C(storage)

Test data available for some. Contact IOXUS

10,000(1,200F), 12,400(2,000F), 13,500(3,000F)

1,200(1,200F), 1,900(2,000F), 2,500(3,000F)

Test data available for some. Contact IOXUS

M8/20Nm & M10/30Nm

LIFETIME SPECIFICATIONS

MODELS

	E _{MAX}	DC	ENDURANCE	STORAGE	CYCLE
	(WHR)[MIN/NOM]	(10YR, 25°C, @VR) [F/mΩ]	(2,000HR, @VR) [F/mΩ]	(2YR, 25°C, @VR) [F/mΩ]	(1M CYCLES, 25°C, @VR-@VR/2) [F/mΩ]
CAPMOD016V200A23	6.9/7.2	>160/<6	>160/<6	>180/<4.5	>160/<6
CAPMOD016V333A23	11.6/12.1	>266/<4.2	>266/<4.2	>298/<3.1	>266/<4.2
CAPMOD016V500A23	17.4/18.2	>400/<3.7	>400/<3.7	>450/<2.7	>400/<3.7
CAPMOD032V100A23	13.9/14.5	>80/<12.2	>80/<12.2	>90/<9.1	>80/<12.2
CAPMOD032V166A23	23.1/24.2	>132/<8.4	>132/<8.4	>148/<6.3	>132/<8.4
CAPMOD032V250A23	34.9/36.4	>200/<7.4	>200/<7.4	>224/<5.5	>200/<7.4
CAPMOD048V066A23	20.6/21.6	>52/<18.2	>52/<18.2	>58/<13.6	>52/<18.2
CAPMOD048V111A23	34.7/36.4	>88/<12.6	>88/<12.6	>98/<9.4	>88/<12.6
CAPMOD048V166A23	52.1/54.4	>132/<11.0	>132/<11.0	>148/<8.2	>132/<11.0
CAPMOD064V050A23	27.9/29.1	>40/<24.4	>40/<24.4	>44/<18.3	>40/<24.4
CAPMOD064V083A23	46.0/48.4	>66/<16.8	>66/<16.8	>74/<12.6	>66/<16.8
CAPMOD064V125A23	69.9/72.9	>100/<14.8	>100/<14.8	>112/<11.1	>100/<14.8
CAPMOD080V040A23	34.6/36.4	>32/<30.6	>32/<30.6	>36/<22.9	>32/<30.6
CAPMOD080V066A23	57.4/60.1	>52/<21.0	>52/<21.0	>58/<15.7	>52/<21.0
CAPMOD080V100A23	87.4/91.1	>80/<18.6	>80/<18.6	>90/<13.9	>80/<18.6
CAPMOD096V033A23	40.6/43.3	>26/<36.6	>26/<36.6	>28/<27.4	>26/<36.6
CAPMOD096V055A23	68.2/72.1	>44/<25.2	>44/<25.2	>48/<18.9	>44/<25.2
CAPMOD096V083A23	103.6/108.9	>66/<22.2	>66/<22.2	>74/<16.6	>66/<22.2
CAPMOD112V028A23	46.4/50.0	>22/<42.8	>22/<42.8	>24/<32.1	>22/<42.8
CAPMOD112V047A23	80.3/83.9	>36/<29.4	>36/<29.4	>42/<22.0	>36/<29.4
CAPMOD128V025A23	55.9/58.3	>20/<48.8	>20/<48.8	>22/<36.6	>20/<48.8
CAPMOD128V041A23	90.9/95.6	>32/<33.6	>32/<33.6	>36/<25.2	>32/<33.6

STANDARDS COMPLIANCE

Safety/Environmental	-----	RoHS, UL810a, Chinese RoHS, IP67
Shock	-----	IEC 60068-2-27(TA1@25g), ISO 16750-3(4.2.2)
Vibration	-----	ISO 16750-3(Table 12)

ADDITIONAL TECHNICAL INFORMATION

Product specification test and calculation methods are available:

*See Product Guide section at cap-xx.com/tech-center

**CAPMOD User Manual & CAN User Manual available at cap-xx.com/product/capmod

DIMENSIONAL SPECIFICATIONS

MODELS

	LENGTH(mm)	WEIGHT(kg)	VOLUME(L)	CELL SIZE	# of CELLS
CAPMOD016V200A23	117	4.3	3.9	1,200F	6
CAPMOD016V333A23	133	5.5	4.9	2,000F	6
CAPMOD016V500A23	165	7.0	5.9	3,000F	6
CAPMOD032V100A23	204	7.6	6.7	1,200F	12
CAPMOD032V166A23	241	10.0	8.5	2,000F	12
CAPMOD032V250A23	309	12.0	10.9	3,000F	12
CAPMOD048V066A23	284	11.0	9.4	1,200F	18
CAPMOD048V111A23	349	14.6	12.0	2,000F	18
CAPMOD048V166A23	453	18.0	15.6	3,000F	18
CAPMOD064V050A23	365	14.4	12.0	1,200F	24
CAPMOD064V083A23	457	19.1	15.6	2,000F	24
CAPMOD064V125A23	597	24.0	20.3	3,000F	24
CAPMOD080V040A23	445	17.8	14.7	1,200F	30
CAPMOD080V066A23	565	23.7	19.2	2,000F	30
CAPMOD080V100A23	741	29.0	25.1	3,000F	30
CAPMOD096V033A23	526	21.1	17.3	1,200F	36
CAPMOD096V055A23	673	28.3	22.7	2,000F	36
CAPMOD096V083A23	885	35.0	29.8	3,000F	36
CAPMOD112V028A23	606	24.5	20.0	1,200F	42
CAPMOD112V047A23	687	32.8	26.3	2,000F	42
CAPMOD128V025A23	781	27.9	22.6	1,200F	48
CAPMOD128V041A23	889	37.4	29.8	2,000F	48

