



FEATURES

- Uses Maxwell BOOSTCAP® ultracapacitors
- Wide voltage range and package configurations
- Long life: up to 1 million cycles
- Low ESR: high power delivery
- UL recognized cells
- Environmentally friendly
- Zero maintenance: cost savings vs. batteries
- Low temperature performance: superior to batteries

APPLICATIONS

- Peak power handling
- Bridge power
- Industrial
- Telecommunication
- Military



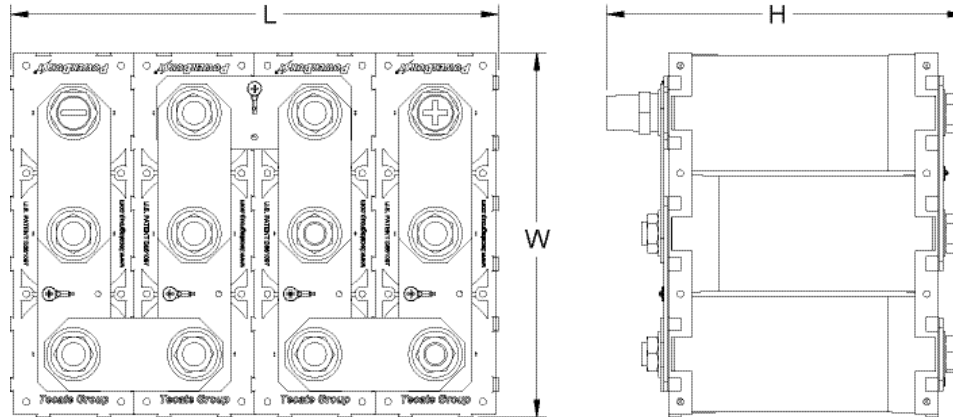
PART NUMBERING

Part Number Example: PBM-325/5.4, 1x2					
PBM	-	325	/	5.4	, 1x2
Type		Capacitance (F)		Module Voltage	Module Configuration



SPECIFICATIONS

Item	Performance	
Operating Temperature	-40° to +65°C	
Storage Temperature	-40° to +70°C	
Rated Voltage	5.4 to 64.8V	
Capacitance Range	27.0 to 1500F	
Capacitance Tolerance	+20%/ -0%	
Temperature Characteristics	Capacitance Change	Within 5% of initial rated value at 25°C (at -40°C)
	Internal Resistance	Within 150% of initial measured value at 25°C (at -40°C)
Endurance	After 1500 hours application of rated voltage at 65°C	
	Capacitance Change	Within 20% of initial specified value
	Internal Resistance	Within 60% of initial specified value
Shelf Life	After 1500 hours storage, at 65°C without load, the capacitor shall meet the specified endurance limits	
Life Test	After 10 years at rated voltage and 25°C	
	Capacitance Change	Within 30% of initial specified value
	Internal Resistance	Within 150% of initial specified value
Cycle Test	Capacitors cycled between specified voltage and half rated voltage under constant current @ 25°C (1 million cycles)	
	Capacitance Change	Within 30% of initial specified value
	Internal Resistance	Within 150% of initial specified value



SPECIFICATIONS

Modules with BCAP0650 cells	ESR/DC (m ohm)	ESR/AC 1 KHz (m ohm)	Leakage Current (mA/72hrs)	Size (mm)			Weight (kg)
				L	W	H	
PBM-325/5.4, 1x2	1.72	1.28	1.5	127	64	102	0.58
PBM-108/16.2, 1x6	5.4	4	1.5	381	64	102	1.72
PBM-108/16.2, 2x3	5.4	4	1.5	190	127	102	1.72
PBM-54/32.4, 3x4	10.92	8.08	1.5	254	190	102	3.59
PBM-54/32.4, 2x6	10.92	8.08	1.5	381	127	102	3.42
PBM-36/48.6, 3x6	16.44	12.16	1.5	381	190	102	5.38
PBM-36/48.6, 2x9	16.44	12.16	1.5	570	127	102	5.13
PBM-27/64.8, 4x6	21.96	16.24	1.5	381	254	102	6.81
PBM-27/64.8, 3x8	21.96	16.24	1.5	506	190	102	7.17
Modules with BCAP3000 cells	ESR/DC (m ohm)	ESR/AC 1 KHz (m ohm)	Leakage Current (mA/72hrs)	L	W	H	Weight (kg)
PBM-1500/5.4, 1x2	0.7	0.53	5.2	127	64	190	1.28
PBM-500/16.2, 1x6	2.34	1.7	5.2	381	64	190	3.82
PBM-500/16.2, 2x3	2.34	1.7	5.2	190	127	190	3.82
PBM-250/32.4, 3x4	4.8	3.45	5.2	254	190	190	7.79
PBM-250/32.4, 2x6	4.8	3.45	5.2	381	127	190	7.79
PBM-166/48.6, 3x6	7.26	5.2	5.2	381	190	190	11.73
PBM-166/48.6, 2x9	7.26	5.2	5.2	570	127	190	11.73
PBM-125/64.8, 4x6	9.72	6.96	5.2	381	254	190	15.53
PBM-125/64.8, 3x8	9.72	6.96	5.2	506	190	190	15.53



SPECIFICATIONS

Modules with BCAP0650 cells	Rated Voltage (VDC)	Capacitance (F)	Number of Cells	Isc (A)	E _{max} (Wh/kg)	P _{max} (W/kg)	P _d (W/kg)
PBM-325/5.4, 1x2	5.4	325	2	3500	2.26	9800	3500
PBM-108/16.2, 1x6	16.2	108	6	3500	2.28	9500	3400
PBM-108/16.2, 2x3	16.2	108	6	3500	2.28	9500	3400
PBM-54/32.4, 3x4	32.4	54	12	3500	2.19	9000	3200
PBM-54/32.4, 2x6	32.4	54	12	3500	2.30	9500	3400
PBM-36/48.6, 3x6	48.6	36	18	3500	2.19	9000	3200
PBM-36/48.6, 2x9	48.6	36	18	3500	2.30	9500	3400
PBM-27/64.8, 4x6	64.8	27	24	3500	2.31	9500	3400
PBM-27/64.8, 3x8	64.8	27	24	3500	2.20	9000	3200
Modules with BCAP3000 cells	Rated Voltage (VDC)	Capacitance (F)	Number of Cells	Isc (A)	E _{max} (Wh/kg)	P _{max} (W/kg)	P _d (W/kg)
PBM-1500/5.4, 1x2	5.4	1500	2	4800	4.75	10700	3900
PBM-500/16.2, 1x6	16.2	500	6	4800	4.77	10100	3500
PBM-500/16.2, 2x3	16.2	500	6	4800	4.77	10100	3500
PBM-250/32.4, 3x4	32.4	250	12	4800	4.68	9800	3400
PBM-250/32.4, 2x6	32.4	250	12	4800	4.68	9800	3400
PBM-166/48.6, 3x6	48.6	166	18	4800	4.64	9700	3300
PBM-166/48.6, 2x9	48.6	166	18	4800	4.64	9700	3300
PBM-125/64.8, 4x6	64.8	125	24	4800	4.69	9700	3300
PBM-125/64.8, 3x8	64.8	125	24	4800	4.69	9700	3300