

CBP Modules

supercapacitor backup power source for embedded systems

features

- 500,000 recharge cycles
- Operating temperature: -40°C to +65°C
- 23 Farad to 500 Farads

benefits

- No batteries = No maintenance
- Very quick charging (minutes not hours to full capacity)
- Not affected by deep discharges

information

The CBP Modules are a series of no-battery OEM backup modules that use super capacitors rather than conventional batteries. The advantage is that they charge very quickly and that they are able to be recharged 500,000 times. This is beneficial for applications that have either a large number of battery discharge cycles or where a "maintenance free" solution is required such as remote terminals or mobile data collectors.

The CBP Modules products come in capacities of 23.33, 58.33, 250, and 500 Farads and can supply back-up power to a twenty Watt load for 1.71min through 44.47minutes respectively.



ORDERING INFORMATION

Part Number	
CBP23	23.33 Farads capacitive backup power module OEM
CBP58	58.33 Farads capacitive backup power module OEM
CBP250	250 Farads capacitive backup power module OEM
CBP500	500 Farads capacitive backup power module OEM

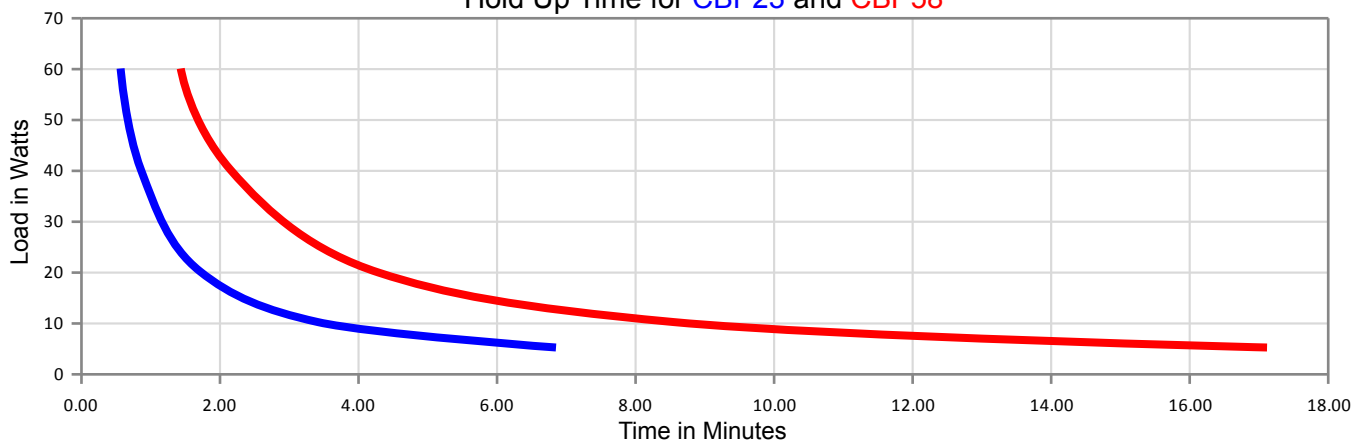
CBP Modules

Specifications

POWER	CBP23	CBP58	CBP250	CBP500
Number of cells in series (Farads)	6	6	6	6
Capacitance each cell	140	350	1500	3000
Total Capacitance (Farads)	23.33	58.33	250	500
Maximum voltage/capacitor	2.5	2.5	2.7	2.7
Maximum voltage/module	15	15	16.2	16.2
Maximum Energy Storage in joules (cutoff voltage 7.0V)	2053	5133	26680	53360
Maximum holdup time in minutes	5 Watt 6.84 10 Watt 3.42 20 Watt 1.71 40 Watt 0.86 60 Watt 0.57	17.11 8.56 4.28 2.14 1.43	88.93 44.47 22.23 11.12 7.41	177.87 88.93 44.47 22.23 14.82

MECHANICAL/ENVIRONMENTAL	CBP23	CBP58	CBP250	CBP500
Weight	0.5 lbs	1.0 lbs	5.0 lbs	8.0 lbs
Operating Temperature	-40°C to +65°C	-40°C to +65°C	-40°C to +65°C	-40°C to +65°C
Storage Temperature	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C

Hold Up Time for CBP23 and CBP58



Hold Up Time for CBP250 and CBP500

