

Product Bulletin

GY12R8 SERIES LARGE CELLS

Revision 1 July 2022

Electrical Specifications

The GY12R8 large cells series of supercapacitors are 2.85V cylindrical cells offering excellent value.

Single cells

Part numbering code

G	Y	N	vvv	dd	mmm	S	ccc	R
Model	Cylindrical	no of cells 1	Voltage 2R8 = 2.85V	Diameter 60 = 60mm	Length (mm) 051 = 51mm 074 = 74mm 085 = 85mm 102 = 102mm	Tolerance M \pm 20% S +30% / -10% V +25% / -5%	μF Two digits + number of zeros. 158 = 1500000000 μ F = 1500F	Lead format D = Laser weld with threads

Rated Voltage: 2.85V (3V surge)

Temperature Range: -40°C to +65°C

CAP-XX Part no.	Capacitance (F)	Max AC ESR 1KHz (m Ω)	Max DC ESR @ 10ms (m Ω)	Diameter (mm)	Length (L) (mm)	DCL ¹ max @ 72 Hrs (mA)	Mass (gm)
GY12R860080S128D	1200	0.32	0.32	60	80	1.7	295
GY12R860108S208D	2000	0.28	0.3	60	108.1	3.7	390
GY12R860144S308D	3000	0.26	0.28	60	144	4.5	510

Notes:

- DC Leakage current decays over time until it reaches equilibrium value. Value quoted is maximum after 72hrs at 2.7V and room temperature.

GY12R7 SERIES LARGE CELL Product Bulletin

Applications:

- Engine starting
- Regenerative energy capture
- Improve the cycle life of large batteries
- Power backup
- UPS systems
- Grid smoothing/correction
- Load regulation for very high-power step changes
- Directed Energy Weapons
- Made in the USA

Drawing:

D type terminal (Laser weld terminals with threads)

