

Product Bulletin

GY12R7 SERIES LARGE CELLS

Revision 2.0, Jul 2021

Electrical Specifications

The GY12R7, GY12R8 large cells series of supercapacitors are 2.7V and 2.85V cylindrical cells offering excellent value.

Part numbering code

G	Y	N	vvv	dd	mmm	S	ccc	R
Model	Cylindrical	no of cells 1	Voltage 2R7 = 2.7V	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 S = 2 solder pins W = 4 Cu tabs C = screw L = LASER weld

Rated Voltage: 2.7V, Temperature Range: -40°C to +65°C

CAP-XX Part no.	Capacitance (F)	ESR Max @ 1KHz (m Ω)	ESR Max @ DC (m Ω)	Dia (mm)	Length (L) (mm)	DCL ¹ max @ 120 Hrs (mA)	Mass (gm)
GY12R760051S657C ²	650	0.70	0.80	60	51	1.8	219
GY12R760074S128C	1200	0.40	0.58	60	74	2.5	297
GY12R760085S158C	1500	0.33	0.47	60	85	3	345
GY12R760102S208C	2000	0.25	0.35	60	102	3.5	408
GY12R760138S308C	3000	0.22	0.29	60	138	5.2	551

Rated Voltage: 2.85V, Temperature Range: -40°C to +65°C

GY12R860051V657L ³	650	0.44	0.56	60	51	3.1	219
GY12R860074V128L	1200	0.36	0.41	60	74	5.8	297
GY12R860085V158L	1500	0.28	0.33	60	85	7.3	345
GY12R860102V208L	2000	0.24	0.28	60	102	9.7	408
GY12R860138V308L	3000	0.20	0.23	60	138	14.5	551

Notes:

- DC Leakage current decays over time until it reaches equilibrium value. Value quoted is maximum after 72hrs at rated voltage and room temperature. Typical value after 120hrs is 1 μ A/F.
- Part number shown for screw terminal. Substitute "L" for "C" for laser weld terminal.
- Only available as laser weld terminals.

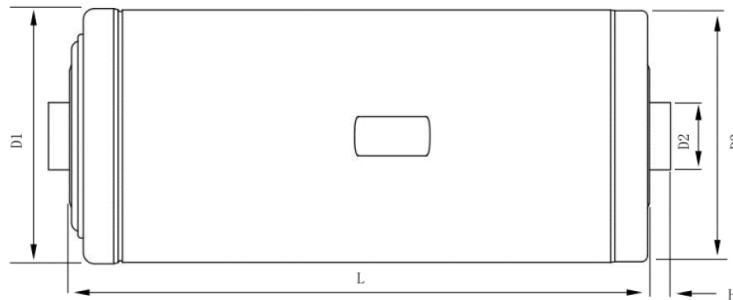
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Applications:

- High power delivery
- Engine cranking
- Regenerative energy capture
- Improve the cycle life of large batteries
- Power smoothing for where fuel cells are used
- Grid smoothing
- Load regulation for very high power step changes
- Directed Energy Weapons

Drawing:

C/L type terminal



Dimension (all unit in mm)

Terminal type	D1	D2	D3	H
C(screw)	$\text{Ø}60.7\pm0.7$	M12 +ve, M14 -ve (thread)	$\text{Ø} 59.9\pm0.4$	13.5
L(laser)	$\text{Ø}60.7\pm0.7$	$\text{Ø} 14.0\pm0.05$	$\text{Ø} 59.9\pm0.4$	3

