

## Product Bulletin

# GY12R7 SERIES LARGE CELLS

Revision 1.1 Feb 2020

## Electrical Specifications

The GY12R7 large cells series of supercapacitors are 2.7V cylindrical cells offering excellent value.

### Single cells

#### Part numbering code

G	Y	N	vvv	dd	mmm	S	ccc	R
<b>Model</b>	<b>Cylindrical</b>	<b>no of cells</b> 1	<b>Voltage</b> 2R7 = 2.7V	<b>Diameter</b> 60 = 60mm	<b>Length (mm)</b> 051 = 51mm 074 = 74mm 085 = 85mm 102 = 102mm	<b>Tolerance</b> M $\pm$ 20% S +30% / -10% V +25% / -5%	<b><math>\mu</math>F</b> Two digits + number of zeros. 158 = 1500000000 $\mu$ F = 1500F	<b>Lead format</b> R = radial S = 2 solder pins W = 4 Cu tabs C = screw

Rated Voltage: 2.7V

Temperature Range: -40°C to +65°C

CAP-XX Part no.	Capacitance (F)	ESR Max @ 1KHz (m $\Omega$ )	ESR Max @ DC (m $\Omega$ )	Dia (mm)	Length (L1) (mm)	DCL <sub>1</sub> max @ 120 Hrs (mA)	Mass (gm)
GY12R760051VS657C	650	0.70	0.80	60	51	1.8	219
GY12R760074VS128C	1200	0.40	0.58	60	74	2.5	297
GY12R760085VS158C	1500	0.33	0.47	60	85	3	345
GY12R760102VS208C	2000	0.25	0.35	60	102	3.5	408
GY12R760138VS308C	3000	0.22	0.29	60	138	5.2	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 $\mu$ A/F

Link to the detailed datasheet for the 3000F cell, [GY12R760138VS308C](#)

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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:**

(Screw) C type terminal

