

## Product Bulletin

# GY12R8 SERIES LARGE CELLS

Revision 1.1 June 2023

## 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
<b>Model</b>	<b>Cylindrical</b>	<b>no of cells</b> 1	<b>Voltage</b> 2R8 = 2.85V	<b>Diameter</b> 60 = 60mm	<b>Length (mm)</b> 080 = 80mm 108 = 108mm 144 = 144mm	<b>Tolerance</b> M $\pm$ 20% S +30% / -10% V +25% / -5%	<b><math>\mu</math>F</b> Two digits + number of zeros. 308 = 3000000000 $\mu$ F = 3000F	<b>Lead format</b> 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 $\Omega$ )	Max DC ESR @ 10ms (m $\Omega$ )	Diameter (mm)	Length (L) (mm)	DCL <sup>1</sup> 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	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)

