

**SERIES: SNAP-IN PEDLC**

**FEATURES**

- Made in the U.S.A.
- High energy density
- High power density
- Low internal resistance (ESR)
- 10 year life
- High cycle life (+20K cycles)
- RoHS compliant

**APPLICATIONS**

- Back-Up Power
- Pulse Power
- Automotive Subsystems
- Portable Power Tools
- Renewable Energy Systems

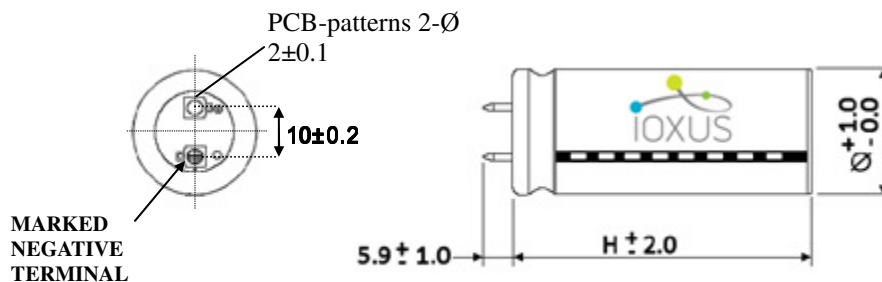


**SPECIFICATIONS:**

<b>Operating Temperature Range</b>	-25 °C to +60 °C	
<b>Storage Temperature Range</b>	-30 °C to +70 °C	
<b>Rated Voltage, V<sub>R</sub></b>	2.3V DC	
<b>Capacitance Tolerance</b>	-10% to +10%	
<b>Cycle Life (25°, V<sub>R</sub>)</b>	After 20,000 cycles between rated voltage and half rated voltage under constant current at 25 °C	
	ΔC < 30% decrease, ESR < 200% increase	
<b>Life Time*</b>	After 10 years at rated voltage and 25 °C	
	ΔC < 30% decrease, ESR < 200% increase	
<b>Endurance</b>	After 1000 hours application of rated voltage at 60°C	
	Capacitance Change	Within 30% of initial specified value
	Internal Resistance (ESR)	Within 200% of initial specified value
<b>Shelf Life</b>	After 1000 hours storage at 70°C without load (0 volts DC)	
	Capacitance Change	Within 20% of initial value
	Internal Resistance (ESR)	Within 200% of initial value

\*Life time is a provisional value

**DIMENSIONS:**



Part Number	Unit	RHE2R3227SR	RHE2R3807SR	RHE2R3108SR
Diameter ( $\emptyset$ )	mm	22	35	35
Height (H)	mm	45	68	88
Volume	ml	17	65	85
Weight	g	25	91	120

**PRODUCT DETAILS:**

Part Number	Unit	RHE2R3227SR	RHE2R3807SR	RHE2R3108SR
Capacitance	F	220	800	1000
Capacitance Tolerance	%	$\pm 10$	$\pm 10$	$\pm 10$
Rated Voltage	V	2.3	2.3	2.3
Surge Voltage	V	2.5	2.5	2.5
Impedance (AC 1kHz)	m $\Omega$	$\leq 20$	$\leq 8$	$\leq 7$
ESR (DC)	m $\Omega$	$\leq 45$	$\leq 15$	$\leq 14$
Max Stored Energy	Wh	0.162	0.588	0.735
Specific Energy	Wh/kg	6.47	6.46	6.12
	Wh/L	9.45	8.99	8.68
Maximum Power	kW/kg	2.65	1.82	1.57
Operating Temp	$^{\circ}\text{C}$	-25 to +60	-25 to +60	-25 to +60
Stored Temp	$^{\circ}\text{C}$	-30 to +70	-30 to +70	-30 to +70
Max Leakage Current	mA	0.27 (72h)	0.5 (72h)	0.7 (72h)
Life time	years	10	10	10
Cycle life	cycles	20,000	20,000	20,000

\*\*All specifications subject to change without notification; please contact Ioxus for the latest information  
 Note: Ioxus will be manufacturing other styles of PEDLCs in the near future