



## Series: iMOD™

### Features:

- Built with patented THiNCAPS™
- Flying lead connections
- Low profile for AGV
- Monitoring to help achieve long life

### Applications:

- AGVs
- Robotics

### Markets:

- Manufacturing
- Logistics
- Pharmaceutical
- Warehousing
- Distribution

### Markings:

Products are marked with the following:

Rated capacitance, rated voltage, product number, name of manufacturer, positive and negative terminal marking.

<b>Operating</b>	
Voltage, Rated	2.7 V/Cell
Voltage, Surge	2.85 V/Cell
Capacitance Tolerance	+10% / -5%
<b>Temperature</b>	
Range, Operational	0°C to 50°C (at Rated Current)
Range, Storage	-25°C to 60°C
<b>Life</b>	
DC	10 years, rated voltage, 25°C
	$\Delta C < 20\%$ decrease, ESR < 100% increase
Endurance	1000 hrs, rated voltage, 70°C
	$\Delta C < 20\%$ decrease, ESR < 100% increase
Shelf	1000 hrs, no voltage, 70°C
	$\Delta C < 20\%$ decrease, ESR < 100% increase
Cycle	>500,000 cycles, Rated to half rated voltage, 25°C
	$\Delta C, 20\%$ decrease, ESR, 100% increase
<b>Standards Compliance</b>	RoHS



## Product Specifications

Part Number	iMOD054V062A3H-02A	iMOD059V072A3H-02A	iMOD054V062A3L-15A
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### Electrical

Capacitance (F)	62	72	62 (Plastic Housing)
ESR, DC $\leq$ (m $\Omega$ ) [3ms]	18	20	17
Overvoltage Monitor	Yes	Yes	Yes
Voltage Rated (V)	54	59	54
Peak Voltage	57	62.5	62.5

### Cycling

Current, Peak [1s] (A)	804	893	817
Continuous Current (A)*	25	25	22
Current, Short Circuit (A)	3066	3046	3176

### Management

Balancing Method	Active	Active	Active
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### Energy/Power

E <sub>max</sub> (Whr)	25	36	25
E <sub>max</sub> (Whr/kg)	2.8	3.0	3.2
E <sub>max</sub> (Whr/L)	3.8	4.2	2.2
P <sub>max</sub> (kW/kg)	4.6	3.8	5.4
P <sub>max</sub> (kW/L)	6.2	5.3	3.8
P <sub>d</sub> (kW/kg)	2.2	1.8	2.6

### Physical

W (mm) [max]	175	180	143
L (mm)	295	295	334
H (mm)	130	160	238
Mass (kg)	9	12	8
Volume (L)	6.7	8.5	11.4



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### Additional Technical Information

Product specification test methods available in separate document.

\*Rated current = continuous current with 20°C temperature rise.

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