



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.

Operating	
Voltage, Rated	2.7 V/Cell
Voltage, Surge	2.85 V/Cell
Capacitance Tolerance	+10% / -0%
Temperature	
Range, Operational	0°C to 50°C (at Rated Current)
Range, Storage	-25°C to 60°C
Life	
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
Standards Compliance	RoHS



Product Specifications

Part Number	iMOD054V062A3H-02A	iMOD059V072A3H-02A	iMOD059V056P3H-00A
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Electrical

Capacitance (F)	62	72	56.6
ESR, DC \leq (m Ω) [3ms]	18	20	18
Overvoltage Monitor	Yes	Yes	Yes
Voltage Rated (V)	54	59	59
Peak Voltage	57	62.5	62.5

Cycling

Current, Peak [1s] (A)	804	893	833
Continuous Current (A)*	25	25	25
Current, Short Circuit (A)	3066	3046	3300

Management

Balancing Method	Active	Active	Passive
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Energy/Power

E _{max} (Whr)	25	36	28
E _{max} (Whr/kg)	2.8	3.0	4.0
E _{max} (Whr/L)	3.8	4.2	3.8
P _{max} (kW/kg)	4.6	3.8	7.0
P _{max} (kW/L)	6.2	5.3	6.8
P _d (kW/kg)	2.2	1.8	3.4

Physical

W (mm) [max]	175	180	170
L (mm)	295	295	360
H (mm)	130	160	130
Mass (kg)	9	12	7
Volume (L)	6.7	8.5	7.2



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Additional Technical Information

Product specification test methods available in separate document.

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

Mouser Electronics

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[iMOD059V072A3H-02A](#) [iMOD054V062A3H-02A](#) [iMOD054V062A3L-15A](#)