



Series: iMOD™

Features:

- Built with patented THiNCAPS™
- Front terminal connections
- 4U height
- 3 wide 19" rack 4 wide 23" rack

Applications:

- Power conditioning
- Short term UPS
- Ride through power/voltage hold up
- Long life

Markets:

- Power correction
- Information systems
- Critical systems
- Hospitals
- Silicon production
- Telecommunications
- Renewable energy
- Food production

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% / -5%

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	iMOD081V042P3L-00A	iMOD081V042P3L-02A	iMOD162V021P3L-00A
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Electrical

Capacitance (F)	41.5	41.5	20.8
ESR, DC $\leq$ (m Ω) [3ms]	22	22	45
Overvoltage Monitor	No	Yes	No
Voltage Rated (V)	81	81	162
Peak Voltage	85.5	85.5	171

Cycling

Current, Peak [1s] (A)	870	870	870
Continuous Current (A)*	23	23	31
Current, Short Circuit (A)	3600	3600	3600

Management

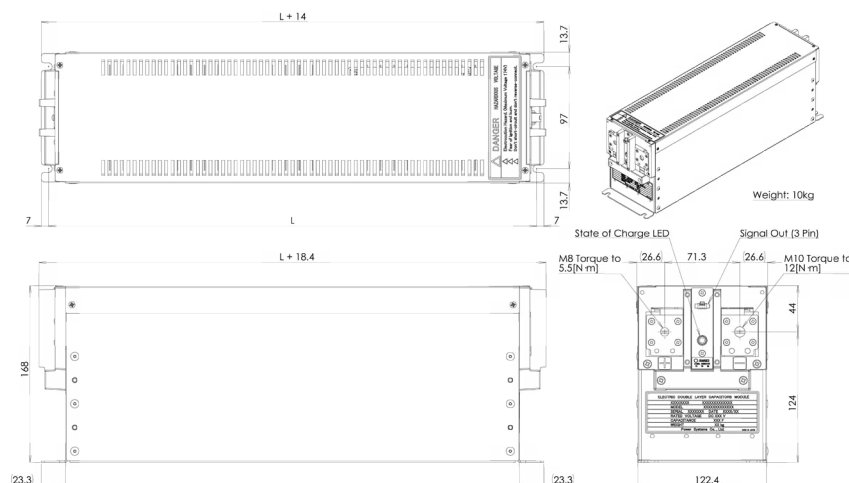
Balancing Method	Passive	Passive	Passive
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Energy/Power

E _{max} (Whr)	38	38	76
E _{max} (Whr/kg)	3.8	3.8	3.7
E _{max} (Whr/L)	3.7	3.7	3.6
P _{max} (kW/kg)	7.5	7.5	6.3
P _{max} (kW/L)	7.4	7.4	7.1
P _d (kW/kg)	3.0	3.0	3.6

Physical

W (mm) [max]	125	125	125
L (mm) hole center to H.C.	463.6	463.6	942.2
H (mm)	168	168	168
Mass (kg)	10	10	23
Volume (L)	10	10	35



Additional Technical Information

Product specification test methods available in separate document.

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



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