

Series: iMOD™

Features:

- 80V working voltage
- Individually balanced cells
- IP-54 rated
- Optional cell monitoring
- Easily bussed for parallel or series
- RoHS compliant
- Very low ESR
- Sold pre-packaged in higher voltage banks

Applications:

- Renewable energy systems
- Wind turbine pitch control
- Low voltage Ride through
- Backup power/UPS
- Power conditioning
- AGV

Markings:

Products are marked with the following:

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

Temperature

Range, Operational	-40°C to 65°C	
Range, Storage	-40°C to 70°C	
Temperature Characteristics	Capacitance Change	Within ±5% of initial specified value
	Internal Resistance (ESR)	Within 100% of initial specified value

Operating

Isolation Voltage/Hi-Pot	2500 VDC
Capacitance Tolerance	-0%

Life

Cycle Life (25°, V ^R) DC	After 1,000,000 cycles between rated voltage and half rated voltage under constant current at 25°C	
	ΔC < 20% decrease, ESR < 100% increase	
Life Time*	After 10 years at rated voltage and 25°C	
	ΔC < 20% decrease, ESR < 100% increase	
Endurance	After 1000 hours application of rated voltage at 65°C	
	Capacitance Change	Within 30% of initial specified value
	Internal Resistance (ESR)	Within 100% of initial specified value
Shelf Life	After 2 years storage at 70°C without charge	
	Capacitance Change	Within 10% of initial specified value
	Internal Resistance (ESR)	Within 50% of initial specified value

Max. Number In Series	10 (800V)		
Standards Compliance Pending	RoHS	UL810a	BS EN 60068-2-6,27,29 IEC 60068-2-14 CH.RoHS, CE, IP54

*Lifetime is a provisional value.



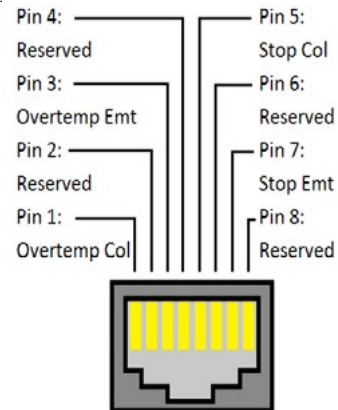
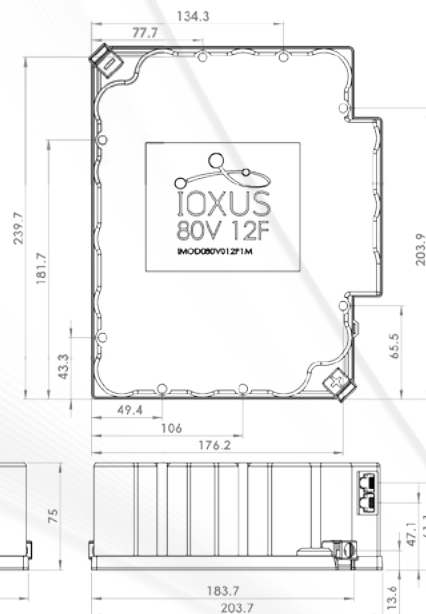
Product Specifications

Part Number			iMOD080V012P1M		
Parameter	Unit		Parameter	Unit	
Capacitance	F	11.7	Length	mm	238
Terminal Tread Size	mm	5	Height (w/o terminals)	mm	74
Rated Voltage	V	81	Width	mm	247
Surge Voltage	V	85	Volume	l	3.9
Impedance (AC 1kHz)	mΩ	≤75	Weight	kg	3
ESR (DC)	mΩ	≤85	Max Stored Energy	Wh	10.6
Terminal Torque Rating	Nm	6	Energy Density	Wh/l	3.5
Continuous Current Rating	A	*10		Wh/kg	2.7
Maximum Peak Current 1 s	A	200	Power Density	kW/l	2.3
Short Circuit Peak Current	A	700		kW/kg	6.3
Cell Management		Passive	Maximum Power	kW/kg	3.0

* at 20C temperature rise

**All specifications subject to change without notification; please contact Ioxus for the latest information

400V Module Pre-assembled from
80V modules



Ordering Options	
Part Number	Configuration
iMOD080V012P1M-00A	No Monitoring
iMOD080V012P1M-02A	Digital over voltage and over temperature warnings

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