



## Series: iMOD™

### Features:

- 16 V working voltage
- Individually balanced cells
- IP-54 rated
- Threaded, protected terminals
- RoHS compliant

### Applications:

- Wind turbine pitch control
- Starting systems
- Automotive subsystems
- Backup power/UPS
- Ride through/power conditioning
- Renewable energy systems



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 V	
Capacitance Tolerance	-10% to +10%	
Life		
Cycle Life (25°, V <sup>R</sup> ) DC	After 500,000 cycles between rated voltage and half rated voltage under constant current at 25°C	
	ΔC < 30% decrease, ESR < 100% increase	
Life Time*	After 10 years at rated voltage and 25°C	
	ΔC < 30% 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 1000 storage at 70°C without load (0 V DC)	
	Capacitance Change	Within 20% of initial specified value
	Internal Resistance (ESR)	Within 100% of initial specified value
Max. Number In Series	40 (750V)	
Standards Compliance	RoHS UL810a BS EN 60068-2-6,27,29 IEC 60068-2-14 CH.RoHS, CE CRoHS IP54,CE MIL 202CT-203C	

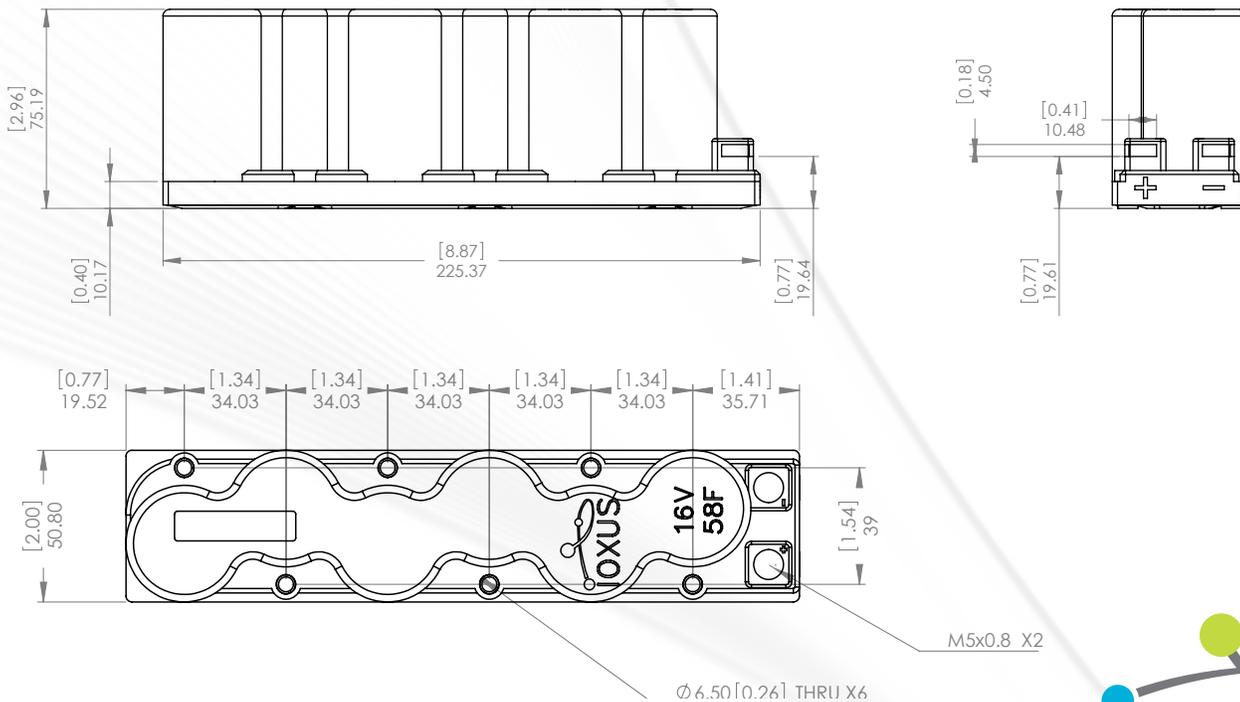
\*Lifetime is a provisional value.



## Product Specifications

Part Number		iMOD016V058P1M-00A	
Parameter	Unit	Parameter	Unit
Capacitance	F	58	
Capacitance Tolerance	%	±10	
Rated Voltage	V	16.2	
Surge Voltage	V	17.1	
Impedance (AC 1kHz)	mΩ	≤15	
ESR (DC) [10ms]	mΩ	≤23	
Leakage Current (72 h)	mA	<25	
Continuous Current Rating	A	19	
Maximum Peak Current 1 s	A	200	
Short Circuit Peak Current	A	1000	
Cell Management		Passive	
Length	mm	225	
Height	mm	76	
Width	mm	51	
Volume	ml	594	
Weight	kg	0.76	
Max Stored Energy	Wh	2.13	
Energy Density	Wh/l	3.6	
	Wh/kg	2.8	
Power Density	kW/l	7.4	
	kW/kg	5.8	
Maximum Power	kW/kg	1.8	

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



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