

TS/M160V0006FPA



APPLICATIONS

- Wind Power Pitch
- Engineering Machinery
- Industrial Equipment
- UPS and Telecom Systems

FEATURES AND ADVANTAGES

- One Million Cycles Lifetime
- High Power Density
- Semi-Voltage Monitoring
- Wide Operating Temperature Range

Electrical Performance

Capacity	Rated Capacity	6F
	Capacity Tolerance	0/+20%
Voltage	Rated voltage	160V DC
	Surge Voltage	171V DC
Internal resistance	ESR(initial)	200 m Ω
Electric current	Maximum leakage current (25°C , after 72h)	25mA
	Maximum continuous current	13A
Energy	Maximum peak current	214A
	Stored energy E_{stored}	21.9Wh
Power density	Energy density E_{max}	4.2Wh/kg
	Power density P_{max}	6309W/kg

Temperature Features

Temperature features	Operating Temperature Range	-40 ~ +65°C
	Storage Temperature Range	-40 ~ +70°C

Monitor and Control

Monitoring	Half Voltage Monitoring	Voltage Signals
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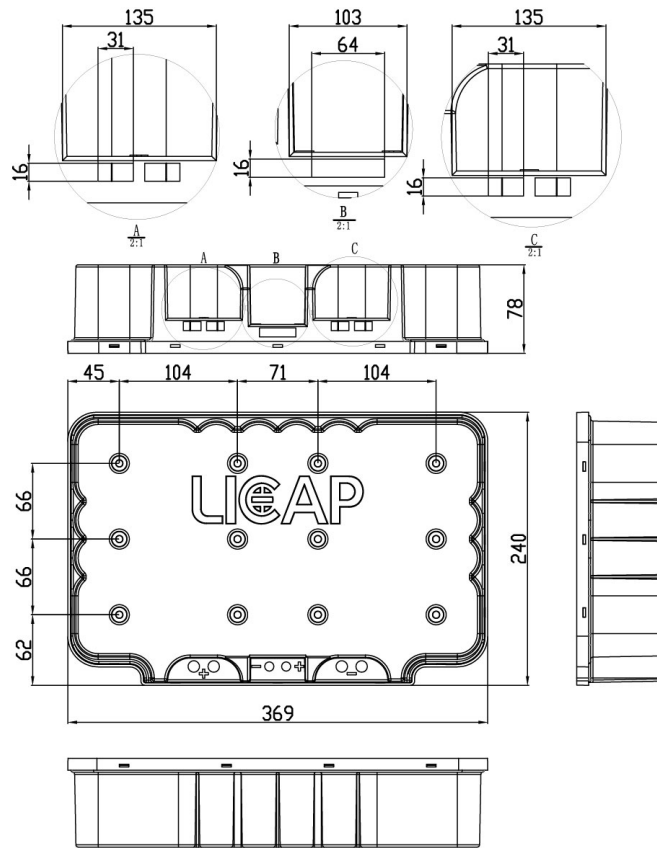
Service Lifetime

Lifetime Under Normal Temperature	Operated over 10 years under 25°C at rated voltage	
	Change in capacity	≤20%
Lifetime Under High Temperature	After operated for 1500h under 65°C at rated voltage	
	Change in capacity	≤20%
Storage Lifetime	4 years (under the highest storage temperature, uncharged)	
	1 million cycles between rated voltage and half rated voltage at 25°C with constant current	
Cycling Test	Change in capacity	≤20%
	Change in internal resistance	≤100%

Safety Specification and Mechanical Features

Safety	Insulation resistance	500V DC Insulation resistance ≥100MΩ
	Insulation intensity	5600V DC Leakage current ≤10mA
	Protection level	IP54
Mechanical Vibration	Operation vibration	GB/T 11287-2000
	Transportation vibration	GB/T 4798.2-2008
	Impact	GB/T 14537-1993

Outline Drawing (For Reference)



External Dimension

Weight	Unit: kg	≤5.2
Size	Unit: mm	369*240*78 (L*W*H)
Shell	Plastic shell	

Module Fastener (For Reference Only)

Position	Name	Specification	Material	Quantity	Torque
Module installation	Screw bolt	Hexagon M5×30	Stainless steel 10.9 level	12	6N*m
	Flat gasket	Φ5		12	
	Spring gasket	Φ5		12	
	Nut	M5		12	
Module Output	Screw bolt	M5×10		4	3N*m
	Flat gasket	Φ5		2	
Terminal Installation	Screw bolt	M4×8		4	
	Flat gasket	Φ4		2	