

# TC/M080V002FAA



## APPLICATIONS

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

## FEATURES AND ADVANTAGES

- One Million Cycles Lifetime
- High Power Density
- Temperature and Voltage Control
- Wide Range of Operation Temperature

## Electrical Performance

Capacity	Rated Capacity	22F
	Capacity Tolerance	0/+20%
Voltage	Rated voltage	80V DC
	Surge Voltage	91V DC
Internal resistance	ESR(initial )	60mΩ
Electric current	Maximum leakage current (25°C , after 72h)	100mA
	Maximum continuous current	50A
Energy	Maximum peak current	370A
	Stored energy E <sub>stored</sub>	22Wh
Power density	Energy density E <sub>max</sub>	2.2Wh/kg
	Power density P <sub>max</sub>	3110W/kg

## Temperature Features

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

## Monitor and Control

Signal output	Voltage signal	AD capture + SPI bus transfer
	Temperature signal	

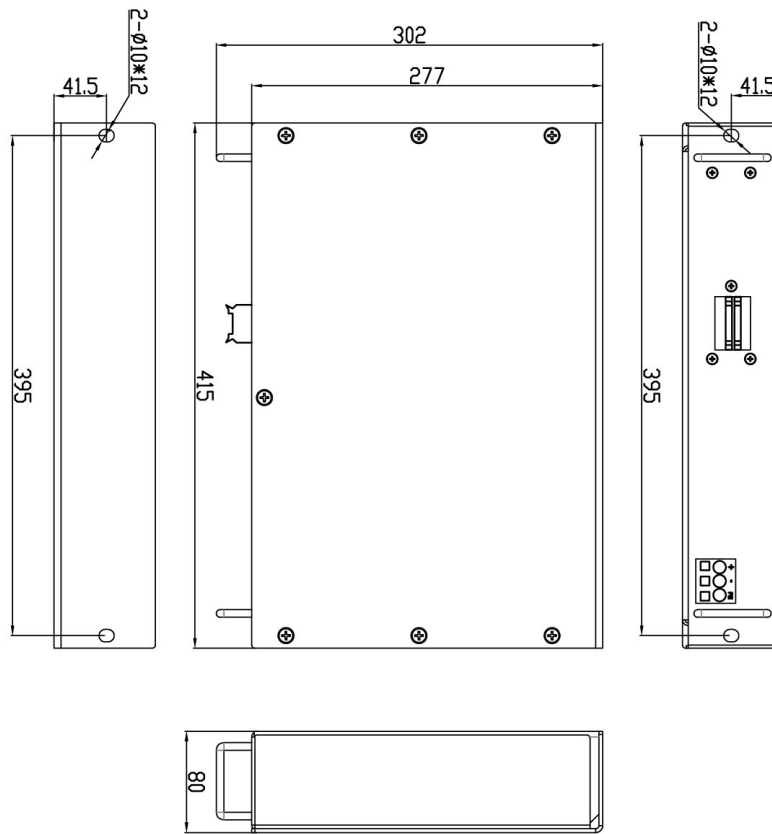
## Service Lifetime

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 internal resistance	≤100%
Storage Lifetime	4 years (under the highest storage temperature, uncharged)	
Cycling Test	1 million cycles between rated voltage and half rated voltage at 25°C with constant current	
	Change in capacity	≤20%
	Change in internal resistance	≤100%

## Safety Specification and Mechanical Features

Safety	Insulation resistance	500V DC Insulation resistance ≥100MΩ
	Insulation intensity	2500V DC Leakage current ≤10mA
	Protection level	IP20
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		≤10		
Size	Unit: mm		415*302*80 ( L*W*H)		
Shell	Metal plate				
Module Fastener (For Reference Only)					
Position	Name	Specification	Material	Quantity	Torque
Module installation	Screw bolt	Stud M8×340	Stainless steel 10.9 level	2	20 N*m
	Flat gasket	Φ8		4	
	Spring gasket	Φ8		4	
	Nut	M8		4	
Module Output Terminal Installation	Cable	Φ10mm <sup>2</sup> Black	Copper	0.5 m	/
	Cable	Φ10mm <sup>2</sup> Red		0.5 m	
	Cable	Φ10mm <sup>2</sup> Yellow and green		0.5 m	
	Bundle	Φ10mm <sup>2</sup>		3	