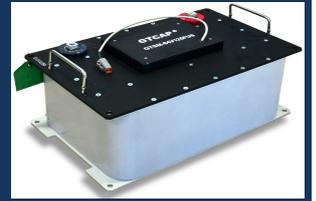


## Datasheet

### 64V 125F Ultra capacitor Module



# GTSM-64V125FUS



#### FEATURES AND BENEFITS

- Compact, fully enclosed splash proof design
- Highest power performance
- Individually balanced cells
- Over 1,000,000 duty cycles
- Ultra-low internal resistance

#### TYPICAL APPLICATIONS

- Wind turbine pitch control
- Heavy industrial equipment
- Telecommunications
- Railway transportation
- Uninterruptible power supplies (UPS)

#### SPECIFICATIONS

##### ELECTRICAL

###### Capacitance

Nominal capacitance	125 F
Capacitance tolerance	0%~20%

###### Voltage

Rated voltage	64 V
Maximum absolute voltage	68 V

###### Resistance

ESR, DC	6.5 mΩ
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###### Current

Maximum continuous current ( $\Delta T=40^{\circ}\text{C}$ )	100 A
Maximum peak current, 1 sec.	2,000 A
Leakage current (after 72hrs @ 25°C)	5.2 mA

##### TEMPERATURE

###### Operating Temperature Range

(Cell case temperature)	-40°C~+65°C
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###### Storage Temperature Range

(Storage uncharged)	-40°C~+70°C
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##### PHYSICAL

###### Weight

20 kg

###### Positive Terminal

M8 Screw Hole

###### Negative Terminal

M10 Screw Hole

###### Recommended Torque - Terminal

20/30 Nm

###### Vibration Specification

GB-T 11287-2000

###### Shock Specification

GBT 14537-1993

###### Cooling

Natural Convection

###### Environmental Protection

IP54

##### MONITORING/CELL VOLTAGE MANAGEMENT

Internal temperature sensor	NTC Thermistor
Cell voltage monitoring	Overvoltage Alarm

##### POWER AND ENERGY

Usable Power Density (Pd.)	3320 W/kg
Impedance Match Power Density (Pmax.)	6920 W/kg
Gravimetric Energy Density (Emax.)	3.1 Wh/kg
Energy Available	62.5 Wh

##### LIFE

###### High Temperature

(at rated voltage & maximum operating temperature) 1500hrs

Capacitance change (% decrease from minimum initial value)	≤20%
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ESR change (% increase from minimum initial value)	≤100%
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###### Room Temperature

(at rated voltage at 25°C) 10years

Capacitance change (% decrease from minimum initial value)	≤20%
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ESR change (% increase from minimum initial value)	≤100%
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###### Cycle Life

(Number of cycles) 1,000,000

Capacitance change (% decrease from minimum initial value)	≤20%
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ESR change (% increase from minimum initial value)	≤100%
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###### Shelf Life

(Stored uncharged up to a maximum storage temperature) 2 years

##### SAFETY

###### Short Circuit Current (Isc)

(Current possible with short circuit from rated voltage. Do not use as an operating current.) 4,000 A

###### Factory High-Pot Test

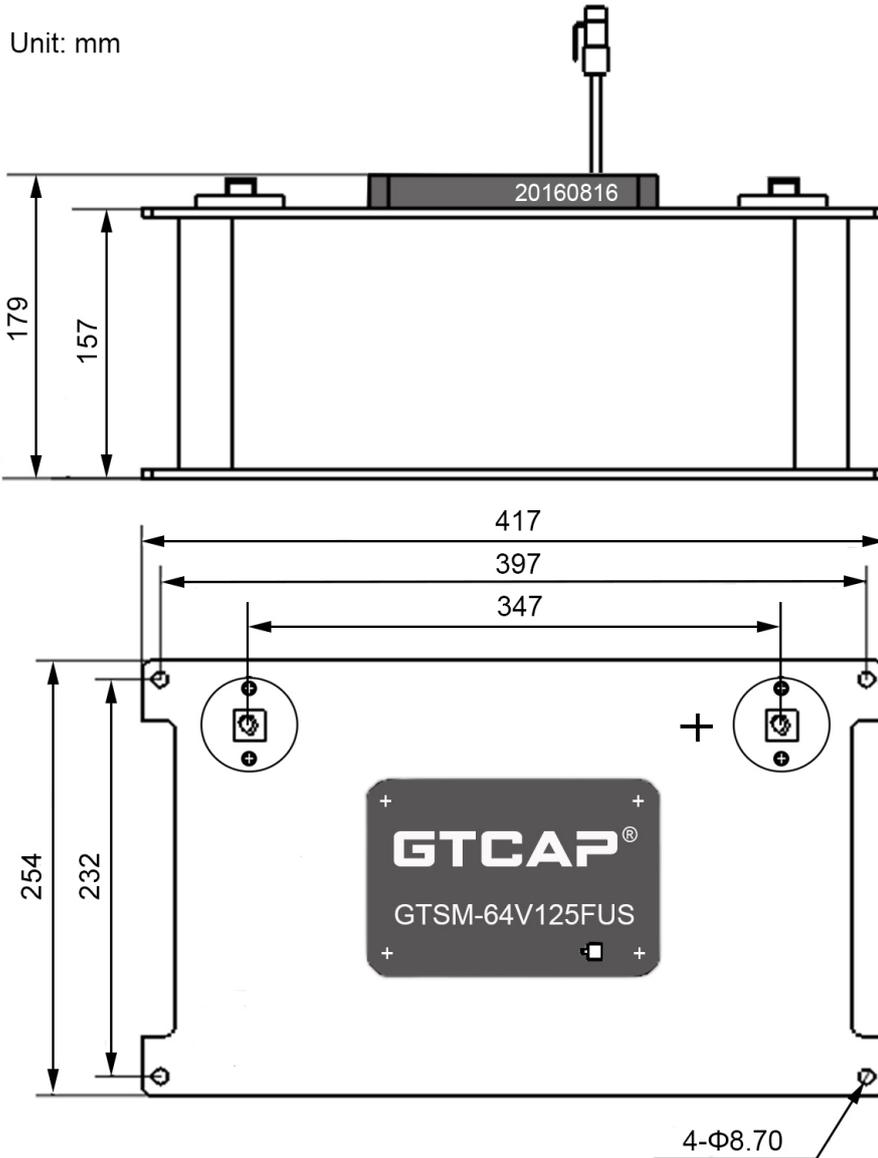
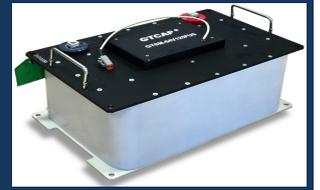
2,500 V/DC

Datasheet

64V 125F Ultra capacitor module



# GTSM-64V125FUS



Part Number	Dimension (mm)			Package Quantity (set)
	L (±0.5mm)	W (±0.5mm)	H (±0.5mm)	
GTSM-64V125FUS	417.0	254.0	179.0	1

Product dimensions are for reference only unless otherwise specified. Product dimensions and specifications may change without notice. Please contact GTCAP directly for any technical specifications critical to application.