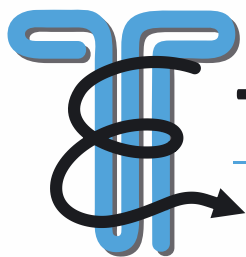


# Energy



**Tamuz Electronics**

Energy Smart Technologies

Dear valuable customer,

Tamuz Electronics Ltd provides standard products as well as custom made and special products.

For commercial offer and technical support for these products, please contact us directly.

Kindly send us your request through the contact form at our website or at the contact details below:

#### Contact details:

Tamuz Electronics Ltd.

Phone: +972-9-7633000 \* Fax: +972-9-7633011 \* E-Mail: [info@tamuz-ele.com](mailto:info@tamuz-ele.com)

Web: [www.tamuz-ele.com](http://www.tamuz-ele.com)

Shipping address: 3C Hayozma St. Industrial Zone, Kfar-Saba 4442216 Israel

Mailing address: P.O Box 7124, Kfar-Saba 4464102 Israel

#### Products and Services:

- Tamuz Electronics Ltd. established in 1998 and specializes in the development, engineering, production and sales of innovative and advanced batteries and power systems supplied to a wide range of customers, market sectors and applications.
- Tamuz provides the optimal solutions for any backup power demands and autonomic systems. The company provides consulting, testing, production, assembly, design and marketing of a wide range of power products, including: batteries, power supplies, charge controllers, converters, portable energy systems and outdoor & indoor electronic systems. The company offers a wide range of Rechargeable and Primary battery technologies. The battery packs designed with protection components, BMS and SM-Bus communication. Tamuz continuously develops and offers a variety of advanced solutions based on new energy technologies which meet the ever growing demand for alternative green energy. Our tailor made and integrated solutions are designed to provide sustainable and non-stop energy supply for many years, while guaranteeing your safety. Throughout the project, we offer a comprehensive services such as: Battery design Assembly and testing, Rapid prototype development, Strong technical support, Professional counseling, Pre-compliance testing according to safety standards such as UL, MIL-Std, REACH, RoHS, IEC-62133, UN.
- Tamuz has an ISO 9001 Quality Management System certificate issued by IQC and by the Dutch Accreditation Council (RvA) (Mgmt. Sys. RvA # C560).

#### Disclaimer:

- Technical data is subject to change without advance notice. Consult factory for latest update specifications.
- While every precaution has been taken to ensure accuracy and completeness of this document, Tamuz Electronics assumes no responsibility and disclaims all liability for damages resulting from the use of this information or for any errors or omissions.

Tamuz customer service.



# Super Capacitor: SC Ultra Pulse Capacitors



We Power Your Technology

## Super Capacitor: SC - Ultra Pulse Capacitors

### Features:

- ✓ **Wide Operating Temperature Range:**  
– 40°C to +85°C.
- ✓ **High Pulse Capability:**  
Up to 5A pulse.
- ✓ **High Reliability:**  
The UPC is parallel connected with a battery or several batteries to eliminate voltage delay and to increase the pulse current capability.
- ✓ **Low leak current:**  
1-15 microA .

### Technical Specifications:

Model	Dimensions (mm)	Max. Charging Voltage (V)	Capacity (3.6V) (As)	Max. Current (mA)		Discharge Cut-off Voltage (V)	Max. Internal Resistance (mΩ)
				Continuous	Pulse		
SC1520	Φ15.1x21.0	3.95	140	500	2000	2.5	200
SC1525	Φ15.1x26.0	3.95	190	1000	3000	2.5	150
SC1550	Φ15.1x50.5	3.95	560	2000	5000	2.5	100

# Ultra Pulse Capacitor SC1550

We Power Your Technology

## Key Features:

- Hermetically Sealed(Glass-to-metal)
- Low Leak Current
- Long Shelf Life
- High Reliability
- Safe Design



## Main Applications :

- Smart Metering
- RFID Devices
- Communication Equipments
- Security System

### Electrical Characteristics(Temperature 23±2 C )

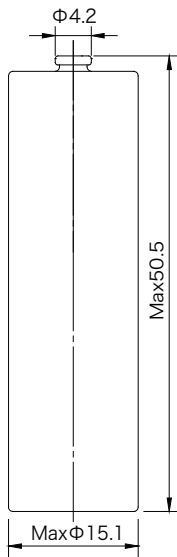
Capaticy at 3.67V	560As
Cut-off Voltage	2.5V
Maximum Continuous Discharge Current	2.0A
Maximum Pulse Discharge Current(1s)	5.0A
Maximum Charge Voltage	3.95V
Maximum Charge Current	50mA
Internal Resistance(1kHz@RT)	≤100mΩ
Leakage Current@RT	5μA
Leakage Current@80 C	15μA

### Physical Characteristics

Max Weight	21.5g
Height(Max)	50.5m
Diameter(Max)	15.1m
Operating Temperature	-40°C~+60°C

# Ultra Pulse Capacitor SC1550

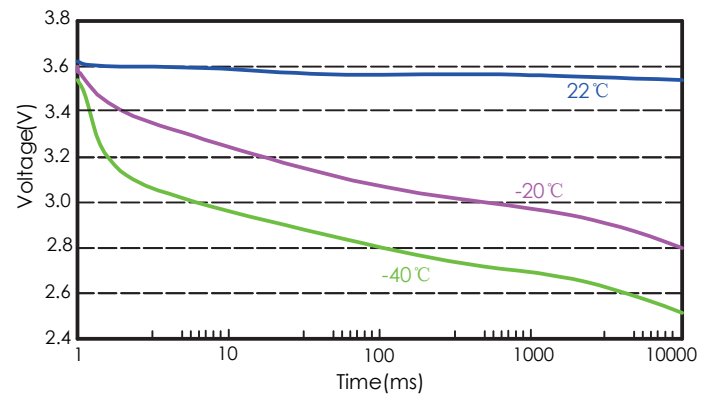
We Power Your Technology



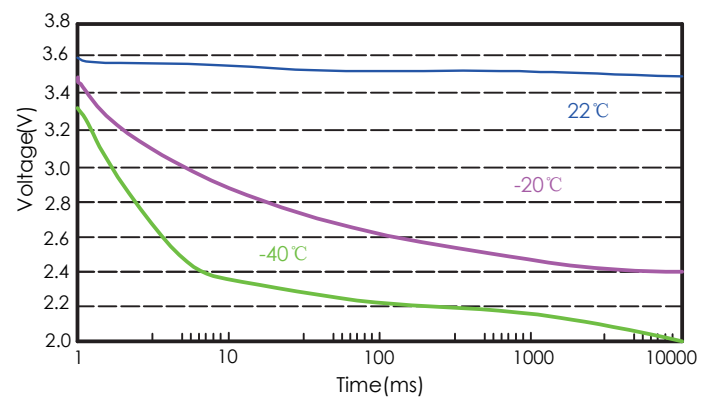
## Warning :

- Do Not Short Circuit
- Do Not Puncture
- Do Not Incinerate
- Do Not Crush
- Do Not Expose Content to Water
- Do Not Discharge
- Do Not Heat Above 100°C

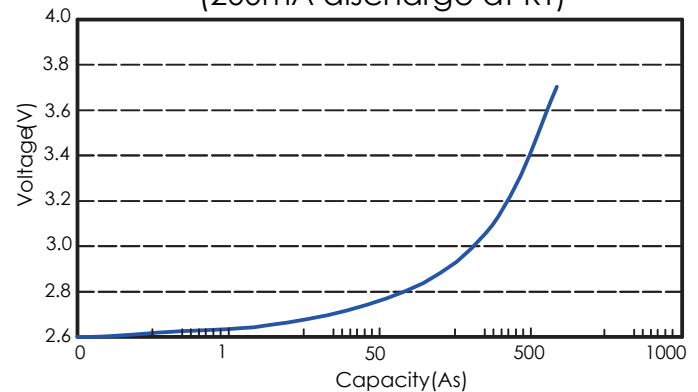
SC1550 500mA Discharge Curve



SC1550 1000mA Discharge Curve



SC1550 Capacity vs.OCV  
(200mA discharge at RT)





### **Battery Pack application form:**

Dear valuable customer, In order to provide you with the best battery solution, kindly provide the maximum information regarding your application and the required battery & charger.

Please return this form to Fax (+972-(0)9-7633011) or E-Mail (info@tamuz-ele.com).

Thank you, Technical Support - Tamuz Electronics Ltd

#### **1) Customer Information:**

a) Company name:	
b) Contact person:	
c) Mailing address:	
d) Tel Number:	Fax Number:
e) E-Mail:	
f) Business sector: <input type="checkbox"/> OEM, <input type="checkbox"/> Assembler, <input type="checkbox"/> Design House, <input type="checkbox"/> Distributor, <input type="checkbox"/> Government, <input type="checkbox"/> Other ( )	

#### **2) General Conditions:**

a) Project name & Brief description of the project:
b) Application: <input type="checkbox"/> Computer, <input type="checkbox"/> Mobile, <input type="checkbox"/> Security, <input type="checkbox"/> Military, <input type="checkbox"/> Medical, <input type="checkbox"/> Other ( ).
c) Quantity required: - Monthly: ( ) pcs, - Yearly: ( ) pcs.
d) Project life time: ( ) months.
e) Time schedule: - Evaluation finish: ( ), Mass-production: ( ).
f) Current battery in use: - Technology:( ), - Voltage:( V), Capacity:( mAH).
g) Other important information:

#### **3) Electrical Specifications:**

a) Voltage:( V), Capacity:( mAH).
b) Charging Conditions: Constant voltage ( V), Current ( mA), Maximum ( V&C) Expected charge time ( Hours), Temperature range ( °C) to ( °C)
c) Discharging Conditions: <input type="checkbox"/> Constant: -power ( W), -current ( mA) <input type="checkbox"/> Pulse: -peak current ( mA) @ time of ( µsec), Average current ( mA). Discharge cutoff voltage: ( V), Expected run time:( Hours). Temp. range ( °C) to ( °C).
d) Termistor: <input type="checkbox"/> Not required, <input type="checkbox"/> Required (Use type: ).
e) Gas Gauge: <input type="checkbox"/> Not required, <input type="checkbox"/> Required (Use type: ).
f) Other important information:

#### **4) Mechanical Specifications:**

a) Package: <input type="checkbox"/> Bare cell, <input type="checkbox"/> Soft shrink pack, <input type="checkbox"/> Hard Plastic pack.
b) Cell configuration: <input type="checkbox"/> Single cell, <input type="checkbox"/> Combination ( ) x ( ) x ( ) cells.
c) Weight required: ( grams) or less.
d) Dimensions required: Width ( mm), Length ( mm), Thickness ( mm).
e) Type of cell considered: <input type="checkbox"/> Prismatic, <input type="checkbox"/> Cylindrical.
f) Battery connections: <input type="checkbox"/> Wires (length mm), <input type="checkbox"/> Plug, <input type="checkbox"/> Contacts, <input type="checkbox"/> Other ( ).
g) Mechanical drawing of the required battery with the Battery' connections (kindly attached drawing).

#### **5) Approvals and Certifications:**

a) Testing required: <input type="checkbox"/> Basic testing according to the company procedures. <input type="checkbox"/> Capacity test for 100% of the production qty, <input type="checkbox"/> Special tests procedures ( )
b) Approvals and Certifications: <input type="checkbox"/> UN certifications test for transportation, <input type="checkbox"/> UL certifications test, <input type="checkbox"/> IEC ( ), <input type="checkbox"/> Other ( )

# IT'S ALL ABOUT ENERGY