



**SHANGHAI GREEN TECH CO., LTD.**

**2019**

**PRODUCTS CATALOGUE**



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## SUPER CAPACITORS

GTCAP design and produce advance super capacitor cells,super capacitor modules and energy storage systems. Including large power type,high energy type and hybrid type.

How to order: **GTSP-2R7-308UT 1000PCS**

GT	S	□	□ □ □	□ □ □	□	□	□	□	□			
Brand	Super	Series	Rated Voltage		Capacitance		Tolerance		Terminal Type		Status	
GTCAP	capacitor	Code	Series	Code	Voltage	Code	Value(F)	Code	Tolerance	Code	Terminal	Code
		P	Power	2R5	2.5V	104	0.1	J	±5%	A	Cable	S=Standard
		E	Energy	2R7	2.7V	224	0.22	K	±10%	B	Bar	C=Customized
		M	Module	3R3	3.3V	474	0.47	M	±20%	C	Coin	P=Prismatic
		PP	Big Power	3R6	3.6V	105	1.0	U	-10%~20%	H	Horizontal	S=Soft roll
		PH	Hi-Temp P	3R8	3.8V	205	2.0	V	10%~30%	L	Lug	
		EH	Hi-Temp E	4R0	4.0V	475	4.7	Z	-20%~80%	N	Snap in	
		MH	Hi-temp M	5R0	5.0V	106	10			P	Pillar	
		ML	Military	5R5	5.5V	206	20			R	Radial Wire	
		PL	Hybrid	6R3	6.3V	506	50			S	Screw in	
				012	12V	107	100			T	Threaded	
				016	16V	367	360			V	Vertical	
				024	24V	407	400			W	Weldable	
				036	36V	657	650					
				048	48V	158	1500					
				056	56V	308	3000					
				075	75V	508	5000					
				100	100V	728	7200					
				120	120V	758	7500					
				240	240V	958	9500					
						109	10000					
						129	12000					
						169	16000					
						609	60000					

- ✧ Voltage: **2.7V** and **3.0V**
- ✧ Cycle life: 500,000 duty times.
- ✧ Operate temperature: - 40°C ~ +70°C(SP series) , - 40°C ~ +85°C (SPH series)



### Application:

Automobile data recorder,digital camera, smart TV set,smart control device,instrument electric toys and apparatus etc.

Part No.	Rated Voltage (V)	Cap. (F)	Max. ESR (mΩ) DC AC/1KHz	Max. DCL (mA)	Max. Continuous Current (A)	Max. Peak Current (A)	Max. Energy Storage (Wh)	Weight (g/pc)	Size (mm)	Lead Space P(mm)
GTSP-2R7-254ZR	2.7	0.25	N/A 700	0.005	0.08	0.32	0.00025	0.7	Φ5x12	2
GTSP-2R7-354ZR	2.7	0.35	N/A 700	0.005	0.08	0.32	0.00035	0.8	Φ5x12	2
GTSP-2R7-504ZR	2.7	0.5	N/A 700	0.005	0.16	0.4	0.00051	1	Φ6.3x12	2.5
GTSP-2R7-105ZR	2.7	1	N/A 350	0.008	0.27	0.63	0.00101	1.4	Φ8x13	3.5
GTSP-2R7-205ZR	2.7	2	N/A 300	0.01	0.43	1.38	0.00203	2.9	Φ8x20	3.5
GTSP-2R7-335ZR	2.7	3.3	N/A 120	0.02	0.9	2.12	0.00334	4.1	Φ10x20	5
GTSP-2R7-475ZR	2.7	4.7	N/A 100	0.025	1.02	2.77	0.00476	4.7	Φ12.5x21	5
GTSP-2R7-505ZR	2.7	5	N/A 90	0.03	1.1	2.89	0.0051	5	Φ12.5x21	5
GTSP-2R7-106ZR	2.7	10	N/A 40	0.03	2.45	9	0.0109	6	Φ12.5x26	5
GTSP-2R7-156ZR	2.7	15	N/A 30	0.04	2.75	11	0.015	7	Φ12.5x31/21	5
GTSP-2R7-206ZR	2.7	20	N/A 29	0.04	5.13	14.8	0.0218	8	Φ16x34/26	7.5
GTSP-2R7-256ZR	2.7	25	N/A 27	0.05	5.63	16.9	0.0245	8	Φ16x34	7.5
GTSP-2R7-306ZR	2.7	30	N/A 20	0.06	6.5	18.8	0.032	9.5	Φ16x34	7.5
GTSP-2R7-506ZR	2.7	50	N/A 20	0.75	10.4	27	0.054	12.2	Φ18x40	8
GTSP-2R7-107ZR	2.7	100	N/A 20	0.2	21.8	54	0.108	17.5	Φ18x45	8

- ✧ Voltage: **2.7V** and **3.0V**
- ✧ Cycle life: 500,000 duty times.
- ✧ Operate temperature: - 40°C ~ +70°C(SP series) , - 40°C ~ +85°C (SPH series)



### Application:

Medical equipment, UPS, printing machine, LED lighting, motor cold starting, wind powers system, elevator etc.

Part No.	Rated Voltage (V)	Cap (F)	Max. ESR (mΩ) DC	Max. ESR (mΩ) AC/1KHz	Max. DCL (mA)	Max. Continuous Current (A)	Max. Peak Current (65°C)1S (A)	Max. Energy Storage (Wh)	Weight (g/pc)	Size (mm)	Lead Space P(mm)
GTSP-2R7-107ZN	2.7	100	15	11	0.2	15	54	0.11	22	Φ22x45	10
GTSP-2R7-127ZN	2.7	120	15	11	0.2	16	56	0.13	22	Φ22x45	10
GTSP-2R7-157ZN	2.7	150	14	10	0.3	18	65	0.16	32	Φ25x50	10
GTSP-2R7-207ZN	2.7	200	14	10	0.65	21	72	0.22	52	Φ35x62	10
GTSP-2R7-227ZN	2.7	220	14	10	0.7	23	75	0.24	53	Φ35x62	10
GTSP-2R7-307ZN	2.7	300	14	10	0.7	25	75	0.33	64	Φ35x62	10
GTSP-2R7-407ZN	2.7	400	14	10	0.85	25	80	0.43	66	Φ35x62	10

- ✧ Rated voltage: 2.7V
- ✧ Cycle life 1,000,000 duty times.
- ✧ Operate temperature: - 40°C ~+70°C
- ✧ **Ultra low ESR**



**Application:**

Medical equipment, UPS, printing machine, LED lighting, motor cold starting, wind powers system, elevator etc.

Part No.	Rated Voltage (V)	Cap. (F)	Max. ESR (mΩ) DC	Max. ESR (mΩ) AC/1KHz	Max. DCL (mA)	Max. Continuous Current (A)	Peak Current (65°C) 1S (A)	Max. Energy Storage (Wh)	Weight (g/pc)	Size (mm)	Lead Space P(mm)
GTSP-2R7-367MN4	2.7	360	3.1	2.8	0.5	34	230	0.36	77	Φ35x62	12.5
GTSP-2R7-407MN4	2.7	400	3	2.5	1.1	35	245	0.41	78	Φ35x62	12.5
GTSP-2R7-607MNS	2.7	600	3	2.5	1.5	40	289	0.61	118	Φ35x96	12.5
GTSP-2R7-357MN4	2.7	350	2.5	1.5	0.5	39	252	0.35	72	Φ34x64	13x3
GTSP-2R7-457MN4	2.7	450	2.5	1.5	0.9	43	285	0.46	90	Φ34x80	13x3
GTSP-2R7-507MN4	2.7	500	2.5	1.5	1	43	300	0.51	90	Φ34x80	13x3
GTSP-2R7-607MN4	2.7	600	2.4	1.4	1.2	47	332	0.61	116	Φ34x94	13x3
GTSP-2R7-727MN4	2.7	720	1.8	1.3	1.4	59	423	0.73	125	Φ34x113	13x3
GTSP-2R7-807MN4	2.7	800	1.8	1.3	1.6	59	443	0.81	125	Φ34x113	13x3

- ✧ Voltage: 2.7V
- ✧ Cycle life **1,000,000** duty times.
- ✧ Operate temperature: - 40°C ~+70°C
- ✧ **Large power and ultra low ESR**



### Application:

Pitching control system of Wind Turbine Generator EV/HEV Solar energy conversion system  
 Hybrid drive trains Mass transportation braking energy recovery system UPS/DVC Heavy  
 duty machinery Locomotive engine start up system etc.

Part No.	Rated Voltage (V)	Cap. (F)	Max. ESR (mΩ) DC	Max. ESR (mΩ) AC/1KHz	Max. DCL (mA)	Max. Continuous Current (A)	Max. Peak Current (A)	Max. Energy Storage (Wh)	Weight (g/pc)	Size (mm)
GTSP-2R7-657UW	2.7	650	0.8	0.7	1.8	87	577	0.66	213	Φ61x52
GTSP-2R7-128UW	2.7	1200	0.58	0.4	2.5	116	955	1.22	291	Φ61x74
GTSP-2R7-158UW	2.7	1500	0.47	0.33	3	135	1187	1.52	339	Φ61x85
GTSP-2R7-208UW	2.7	2000	0.35	0.25	3.5	168	1588	2.03	402	Φ61x102
GTSP-2R7-308UW	2.7	3000	0.29	0.22	5.2	208	2165	3.04	545	Φ61x138
GTSP-2R7-508UW	2.7	5000	0.28	0.21	13	250	2812	5.06	795	Φ61x204
GTSP-2R7-657UT	2.7	650	0.8	0.7	1.8	87	577	0.66	213	Φ61x52
GTSP-2R7-128UT	2.7	1200	0.58	0.4	2.5	116	955	1.22	291	Φ61x74
GTSP-2R7-158UT	2.7	1500	0.47	0.33	3	135	1187	1.52	339	Φ61x85
GTSP-2R7-208UT	2.7	2000	0.35	0.25	3.5	168	1588	2.03	402	Φ61x102
GTSP-2R7-308UT	2.7	3000	0.29	0.22	5.2	208	2165	3.04	545	Φ61x138
GTSP-2R7-508UT	2.7	5000	0.28	0.21	13	250	2812	5.06	795	Φ61x204

- ✧ Operate temperature: -25°C~+70°C
- ✧ Voltage: 5.5V
- ✧ Cycle life: 500,000 times
- ✧ Small size. good performance in keeping voltage stable.
- ✧ **It can be the perfect back-up power supplier.**



### Application:

Smart meters, electric cooker, electric water heater, intelligent door lock, TV set, laptop, electronic toy, telephone, camera, VCR, medical equipment etc.

Part No.	Voltage (V/DC)	Cap (F)	ESR Max(Ω)	Size ΦDxh(mm)			Lead Space P(mm)
GTS E-5R 5-104ZH/V/C	5.5	0.1	50	H:11x4.5	V:11x5	C: 13.5x6.5	H:10/V:5/C:5
GTS E-5R 5-224ZH/V/C	5.5	0.22	40	H:11x4.5	V:11x5	C: 13.5x6.5	H:10/V:5/C:5
GTS E-5R 5-334ZH/V/C	5.5	0.33	40	H:11x4.5	V:11x5	C: 13.5x6.5	H:10/V:5/C:5
GTS E-5R 5-474ZH/V/C	5.5	0.47	20	H:11x4.5	V:11x5.5	C: 13.5x7.3	H:18.8/V:6/C:5
GTS E-5R 5-105ZH/V/C	5.5	1.0	15	H:19x5.7	V:119x5	C: 20.5x7.5	H:18.8/V:6/C:5
GTS E-5R 5-155ZH/V/C	5.5	1.5	10	H:19x5.7	V:119x5	C: 20.5x7.5	H:18.8/V:6/C:5
GTS E-5R 5-205ZH/V/C	5.5	2.0	10	H:19x5.7	V:119x5.5	C: 20.5x7.7	H:20/V:6/C:5
GTS E-5R 5-405ZH/V	5.5	4	12	H:24.8x6.6	V:24.8x6.6	N/A	H:25.6/V:6.5



- ✧ Operate temperature: **-25°C~+85°C(SEH)**
- ✧ Voltage: **3.6V**
- ✧ Cycle life: 500,000 times
- ✧ Small size. good performance in keeping voltage stable.
- ✧ It can be the perfect back-up power supplier.



### Application:

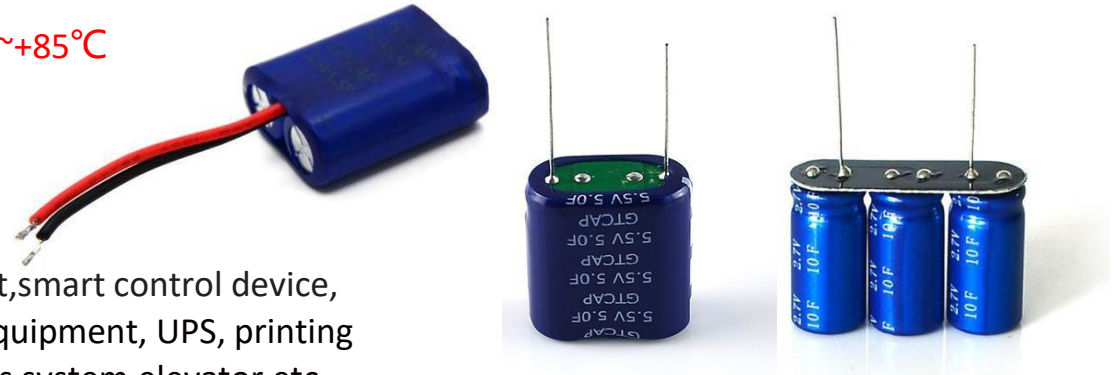
Smart meters, electric cooker, electric water heater, intelligent door lock, TV set, laptop, electronic toy, telephone, camera, medical equipment, VCR etc.

Part No.	Voltage (V/DC)	Cap. (F)	ESR Max(Ω)		Size ΦDxh(mm)		Lead Space P(mm)
GTS EH-3R 6-104ZH/V/C	3.6	0.1	50	H:11x4.5	V:11x5	C: 13.5x6.5	H:10/V:5/C:5
GTS EH-3R 6-224ZH/V/C	3.6	0.22	40	H:11x4.5	V:11x5	C: 13.5x6.5	H:10/V:5/C:5
GTS EH-3R 6-334ZH/V/C	3.6	0.33	40	H:11x4.5	V:11x5	C: 13.5x6.5	H:10/V:5/C:5
GTS EH-3R 6-474ZH/V/C	3.6	0.47	20	H:11x4.5	V:11x5.5	C: 13.5x7.3	H:18.8/V:6/C:5
GTS EH-3R 6-105ZH/V/C	3.6	1.0	15	H:19x5.7	V:119x5	C: 20.5x7.5	H:18.8/V:6/C:5
GTS EH-3R 6-155ZH/V/C	3.6	1.5	10	H:19x5.7	V:119x5	C: 20.5x7.5	H:18.8/V:6/C:5
GTS EH-3R 6-205ZH/V/C	3.6	2.0	10	H:19x5.7	V:119x5.5	C: 20.5x7.7	H:20/V:6/C:5

- ❖ Operate temperature: SM -40°C~+70°C, **SMH-25°C~+85°C**
- ❖ Voltage: SM 5.5V, 7.5V, **SMH 5.0V**
- ❖ Cycle life: 500,000 times

### Application:

Automobile data recorder, digital camera, smart TV set, smart control device, instrument electric toys and apparatus etc. Medical equipment, UPS, printing machine, LED lighting, motor cold starting, wind powers system, elevator etc.



Part No.	Voltage (V/DC)	Cap (F)	ESR Max(Ω)	Size WxLxH(mm)	Lead Space P(mm)
GTSM-5R5-104UR	5.5	0.1	1.4	7x13x14	8
GTSM-5R5-224UR	5.5	0.22	1.2	7x13x14	8
GTSM-5R5-334VR	5.5	0.33	1.2	9x17x16	8
GTSM-5R5-474VR	5.5	0.47	1.2	9x17x16	8
GTSM-5R5-105VR	5.5	1	0.5	10x21x22	12
GTSM-5R5-155VR	5.5	1.5	0.5	10x21x22	12
GTSM-5R5-205VR	5.5	2	0.22	13x26x23	12
GTSM-7R5-334VR	7.5	0.33	1.8	9x25x16	13
GTSM-7R5-335UR	7.5	3.3	0.27	10.5x32x31	15

## Feature:

Green Tech's super capacitor module provides energy storage and power delivery in a compact, cost-effective modules. The modules can charge-discharge fast, all of these products will perform reliably for more than 1,000,000 times discharge-recharge cycles.

The modules can be series connected up to higher voltage or parallel connected for larger energy requirements.

The easy to connect, standard module allows system designers to focus upon use of the power and energy rather than how to assemble cells.

## Application:

Engine start: Telecommunications equipment, Tank, Truck, Car cold start;

Energy recovery: Electric train, Hybrid bus, Elevator

Back up power: Construction equipment, UPS, Heavy duty transportation, Cranes, Mining equipment, Electronic bicycle

New energy resources: Solar LED street light. wind turbine pitch control, Solar power system, micro-grid.



## Green Tech Standard Super Capacitor Modules:

Part No.	Cap.	Voltage	Max. DCL After 72hrs	Max. ESR(mΩ)		Peak current	Max. Continuous current	Max. Energy storage	Weight	Szie
	F	V	mA	AC/1KHz	DC	65°C 1s	A	Wh	g	LxWxH
GTSM-16V60FUS	60	15	0.3	18	22	213	34	1.81	1200	215x85x44
GTSM-16V120FUS	120	16	0.8	10	12	460	70	4.3	2000	301x88x87
GTSM-16V110FUB	110	16	1.5	5.0	5.6	568	65	3.9	3500	243x136x112
GTSM-16V100FUL	100	16	0.9	20	25	228	35	3.5	1420	154x140x100
GTSM-16V500FUS	500	16	5.2	1.35	1.8	2275	100	17.8	5700	416x67x178
GTSM-24V800FUS	800	24	8	2	3	3648	400	64	24000	450x196x245
GTSM-48V20FUS	20	48	0.5	60	65	230	34	0.36	4000	273x136x100
GTSM-48V165FUS	165	48	5.2	5	6	2275	100	52.8	14500	417x190x176
GTSM-50V30FUS	30	50	0.9	60	75	268	38	12	5000	200x230x115
GTSM-64V125FUS	125	64	5.2	6	6.5	2275	100	62.5	20000	417x254x179
GTSM-72V115FUS	115	72	7	7	12	2275	120	82.8	20000	472x256x191
GTSM-90V10FUS	10	90	0.5	120	140	205	34	11.25	7750	270x286x100