



SHANGHAI GREEN TECH CO., LTD.

QUALITY MANAGEMENT SYSTEM: INDUSTRIAL ISO9001-2015 MILITARY GJB9001B-2009

2020

PRODUCTS CATALOGUE



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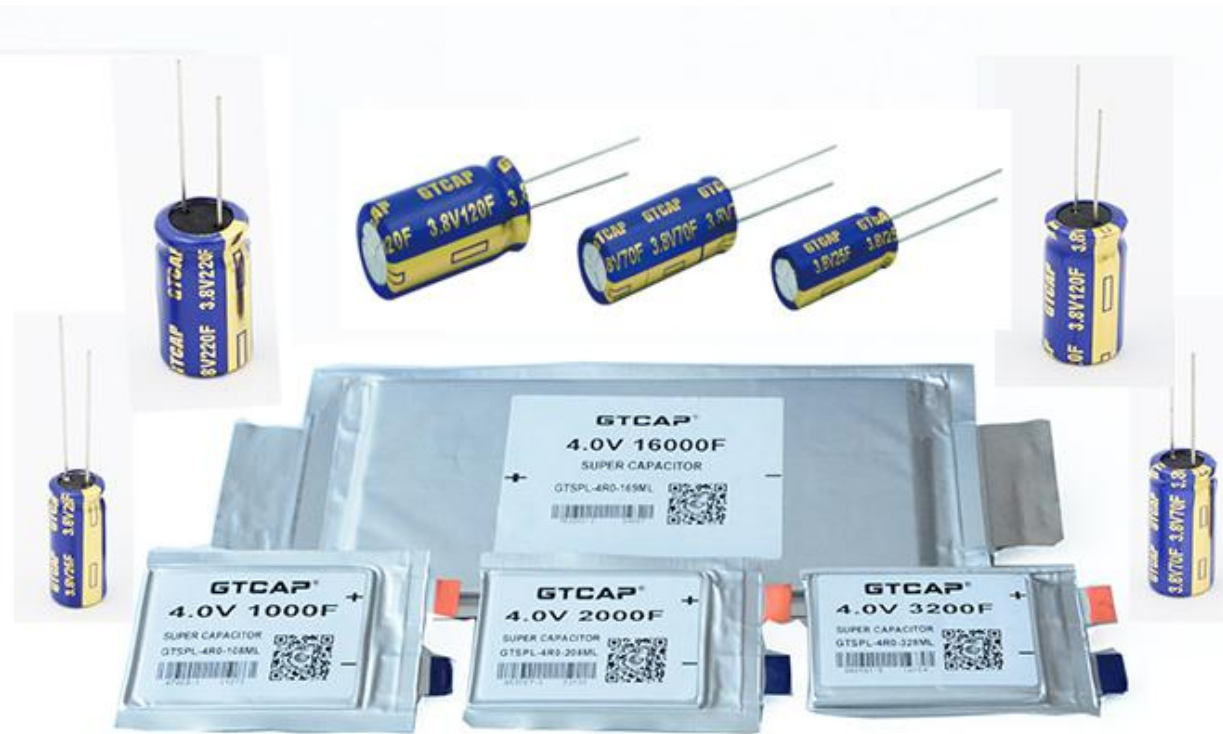
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HYBRID SUPER CAPACITORS

GTCAP design and produce advanced hybrid super capacitors, with larger energy density than EDLC, long life, wide temperature range, big power and low self-discharge

How to order: **GTSP-3R8-706ML 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	
		MG	Graphene	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	908	9000					
				120	120V	109	10000					
				240	240V	119	11000					
						169	16000					
						189	18000					
						609	60000					
						909	90000					

Compare with other energy storage parts:

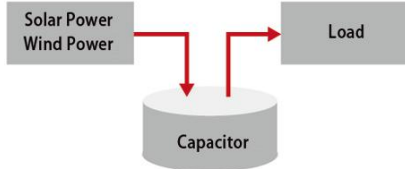
Items	GTCAP Hybrid Super Capacitor	EDLC	Li-ion Battery
Operate Temperature Range	-25°C~+85°C	-25°C~+70°C	-25°C~+60°C
Cycle Life	>500,000 times	>500,000 times	1000~2000 times
Unit Volume Capacitance	2	1 *	100
Maintenance	Free	Free	Often with high cost
Electrode Materials	Active carbon	Active carbon	Li oxide and carbon materials
Electrolyte Materials	Organic solvent	Organic solvent	Organic solvent
Environmental Pollution	None	None	None

* Compare base one EDLC as 1.

Typical Applications:

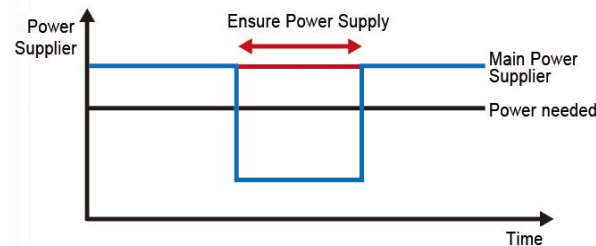
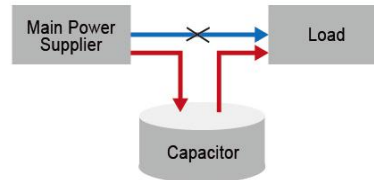
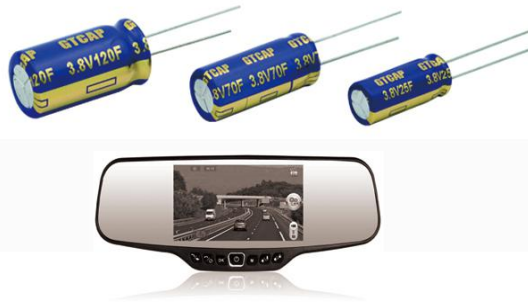
Replace Battery

Eg: Used in solar road stud, caution light, wall LED light, GTCAP hybrid super capacitor can replace the battery, low self-discharge ensure the energy keep for long time, and long cycle life make the device maintenance free.



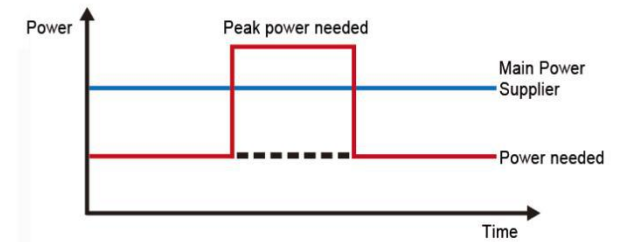
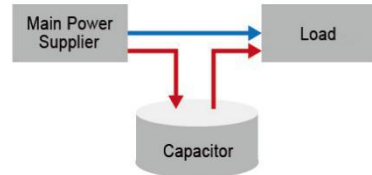
Back Up Power Supplier

Eg. When used in carcorder, GTCAP hybrid super capacitor can supply power immediately when the main power cut off.



Power Back Off

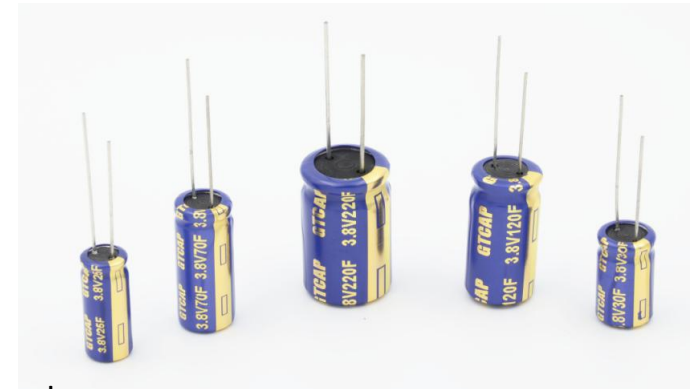
Eg. When used in smart meters, GTCAP hybrid super capacitor can supply large power to assist the battery when need large power, and make the meters maintenance free. And can be used at outdoor.



- ✧ Optimum Working Voltage Range: **3.8V~2.5V**
- ✧ Cycle life: 500,000 times
- ✧ Operating temperature: **-25°C~+70°C/+85°C (3.5V)**
- ✧ **High energy density.**

Application:

Widely use in solar LED light, smart electric meters, gas meters, water meters, energy meters for back up power to record the data and remote meters reading and so on



Part No.	Rated Voltage (V)	Surge Voltage (V)	Cap. (F)	Max. ESR (Ω) DC AC/1KHz	Max. DCL 72h (μA)	Self-discharge current 3months (μA)	Rated charge-discharge current (A)	Max. Peak Current (A)	Weight (g/pc)	Size (mm)	Lead Space P(mm)
GTSP-3R8-106MR	3.8	4.2	10	0.8 0.4	2	0.65	0.075	0.5	1.4	Φ8x14	3.5
GTSP-3R8-256MR	3.8	4.2	25	0.65 0.3	2.5	0.85	0.125	0.8	1.8	Φ8x20	3.5
GTSP-3R8-306MR	3.8	4.2	30	0.55 0.25	3.5	1.5	0.15	1.0	2.5	Φ10x16	5.0
GTSP-3R8-706MR	3.8	4.2	70	0.25 0.1	8	2.5	0.35	3.0	3.8	Φ10x25	5.0
GTSP-3R8-127MR	3.8	4.2	120	0.2 0.08	7	3	0.6	5.0	5.5	Φ12.5x25	5.0
GTSP-3R8-227MR	3.8	4.2	220	0.1 0.06	12	5	0.8	8	9.5	Φ16x25	7.5
GTSP-3R8-457MR	3.8	4.2	450	0.08 0.04	30	12	2.25	15	22	Φ18x40	7.5
GTSP-3R8-657MR	3.8	4.2	650	0.06 0.03	38	18	4	20	34	Φ22x50	10

- ✧ Optimum Working Voltage Range: **4.0V~2.5V**
- ✧ Cycle life: 50,000 times
- ✧ Operating temperature: -25°C~+55°C
- ✧ **High energy density.**

Application:

Widely use in UPS,solar power system, elevator starting,medical equipment and so on.



Part No.	Rated Voltage (V)	Surge Voltage (V)	Cap. (F)	Max. ESR (mΩ)		Max. DCL (mA)	Self-discharge current 72h (μA)	Rated charge-discharge current (A)	Max. Peak Current (A)	Weight (g/pc)	Size (mm)	Lead Space P(mm)
				DC	AC/1KHz							
GTSPL-4R0-108ML	4.0	4.35	1000	20	9	0.24	≥3.92V	5.0	20	27	100x71x3	15
GTSPL-4R0-208ML	4.0	4.35	2000	9	5	0.295	≥3.92V	10	30	50	100x71x5.5	15
GTSPL-4R0-328ML	4.0	4.35	3200	5.5	3	0.335	≥3.92V	16	40	78	100x65x9.0	15

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				DC	AC/1KHz							
GTSP-4R0-608ML	4.0	4.35	6000	3.5	2.5	0.48	≥3.92V	30	100	165	295x123x3.5	245
GTSP-4R0-109ML	4.0	4.35	10000	1.8	1.2	0.53	≥3.92V	50	150	240	295x123x5.5	245
GTSP-4R0-169ML	4.0	4.35	16000	1.2	1.0	0.58	≥3.92V	60	200	375	295x123x8.0	245