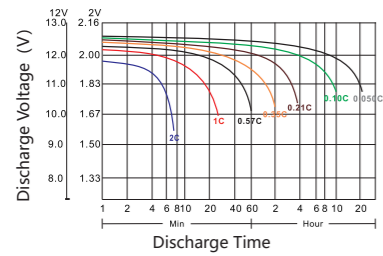
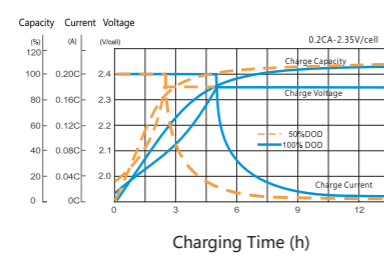


**High Energy Pb-C Battery Performance Curve**

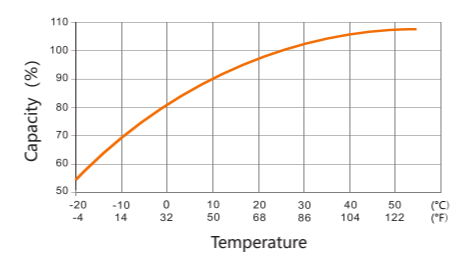
Discharge Characteristics (25°C/77°F)



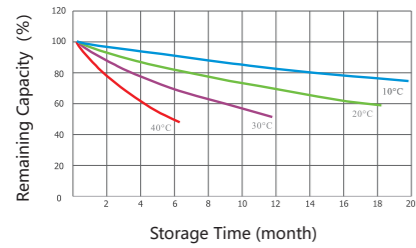
Charge Characteristic (25°C/77°F)



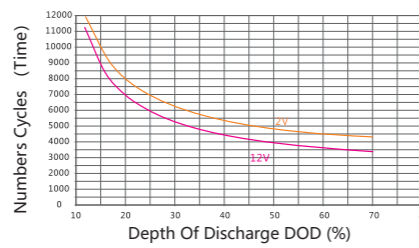
Capacity Effected By Temp.Characteristic



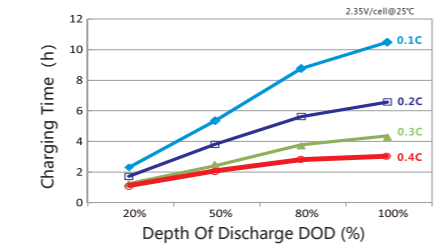
Self-discharge Characteristic



Cycle Life With DOD Characteristic

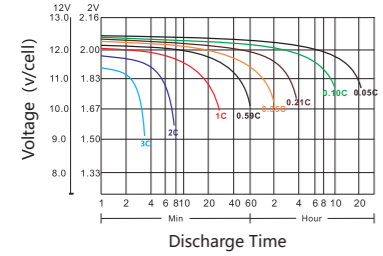


Charge Time With DOD Characteristic

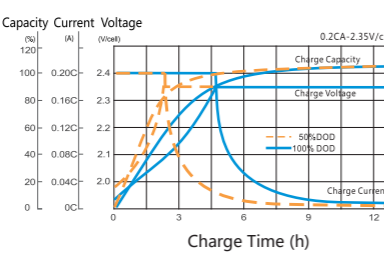


**High Power (Type P) Pb-C Performance Curve**

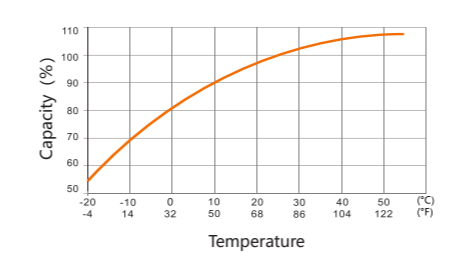
Discharge Characteristics (25°C/77°F)



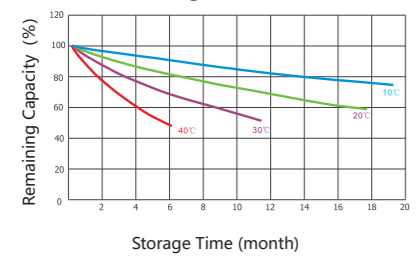
Charge Characteristic (25°C/77°F)



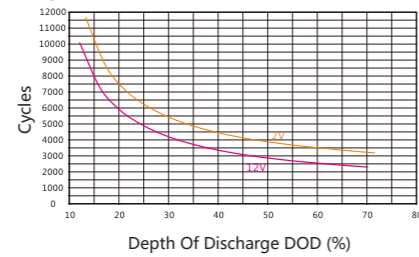
Capacity Effected By Temp.Characteristic



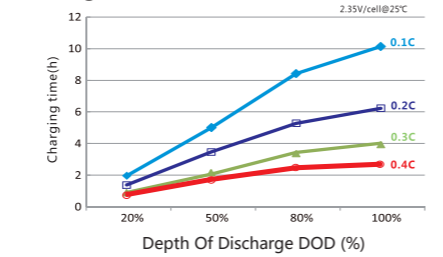
Self-discharge Characteristic



Cycle Life With DOD Characteristic



Charge Time With DOD Characteristic



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HKEx Code: 00819

www.tiannenggroup.com

**Energy Storage Battery-TNC Series  
(Lead Carbon Battery)**

The TNC series adopts advanced lead carbon technology and special positive active material structure, along with patent rare earth alloy and patent rare earth alloy and patent hydrophobic separator with VRLA technology to achieve extra longer cycle life, with excellent high energy and also high power, even in partial state of charge (PSOC).

**Product Features**

**Advanced Lead Carbon Technology**

- Restrain the sulfation, increase the ability of charge acceptance

**Patent Rare Earth Alloy (Green Alloy)**

- Plate corrosion: -50%
- Life time: +30%
- High charging current (Amps) : +30%

**Patent Hydrophobic Separator**

- Batter in tensile strength and elasticity
- Improves battery capacity retention and cycle life
- Patent number: ZL201210070685.8

**Extended Cycle Life**

- High energy battery 12V: 60%DOD≥3600 cycles
- High energy battery 2V: 60%DOD≥4500 cycles
- High power battery 2V: 60%DOD≥3500 cycles
- High power battery 12V: 60%DOD≥2500 cycles

**Excellent Battery Performance**

- Excellent performance on fast charging, charging time cut down by 30%

**Product Applications**



SOLAR POWER SYSTEM



WIND POWER SYSTEM



ELECTRIC POWER SYSTEM



POWER DISTRIBUTION & TRANSMISSION



HOUSEHOLD ENERGY STORAGE SYSTEM



COMMERCIAL ENERGY STORAGE SYSTEM



UPGRADED UPS SYSTEM



**Pb-C Battery Specification**

No.	Model	Nominal Voltage (V)	Nominal Capacity		Dimension (mm)				Terminal
			C <sub>10</sub> (Ah) 1.80Vpc/25°C	C <sub>100</sub> (Ah) 1.80Vpc/25°C	L	W	H	TH	
1	TNC12-50	12	50	63.3	260	168	211	213.5	I3
2	TNC12-20P	12	20	21.2	181	77	169	171	I10
3	TNC12-65P	12	65	69	260	168	211	213.5	I3
4	TNC12-80P	12	80	85	330	172	214	221.5	I7
5	TNC12-100P	12	100	106	408	177	224	224	I7
6	TNC12-120P	12	120	127	480	170	240	240	I7
7	TNC12-150P	12	150	159	532	207	215	220	I7
8	TNC12-170P	12	170	180	522	239	220	225	I7
9	TNC12-200P	12	200	212	520	268	220	225	I7
10	TNCF12-170P	12	170	180	561	125	317	317	I7
11	TNC2-500P	2	500	530	285	170	330	341.5	I7
12	TNC2-700P	2	700	742	382	170	330	341.5	I7
13	TNC2-800P	2	800	848	470	170	330	341.5	I7

**Battery Terminal**

