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TIANNENG



LEAD ACID BATTERY

COMPANY PROFILE



Tianneng Group, founded in 1986, is a large-scale industrial company dedicated to manufacturing environmentally friendly battery, integrating R&D, production, and sales of motive battery, vehicle lithium batteries, automobile batteries, reserve batteries, wind and solar energy storage batteries, as well as construction of urban intelligent micro-grid and green intellectual industrial park as a whole.

Ranking 1st | Asian Lead-acid Battery Manufacturer

120+ | Subsidiaries

4000+ | Patent

On January 18, 2021,Tianneng Battery Group Co,. Ltd (Stock Code: 688819) is successfully listed on the SSE STAR Market which is the most influential one in the Chinese stock market, being the first company both listed on the A shares and H shares in the industry. After more than 30 years of innovation and development, Tianneng is currently the world's leading provider of green energy solutions with sales of more than USD 15. 4 billion, having a professional sales team and an international sales network. Tianneng is composed of more than 100 subsidiaries around the world with approximately 26,000 employees.

2021 Revenue **$13.5 billion**

2021 Revenue Increases by **60%**

2017-2021 CAGR **26.05%**

INTELLIGENT FACTORY





- **Production Capacity:** 1,000,000+Per Day SLA Battery

CERTIFICATE


CERTIFICATE

Quality Management System Certificate

Tianneng Battery Group Co.,Ltd.


CERTIFICATE

Environmental Management System Certificate

Tianneng Battery Group Co.,Ltd.


CERTIFICATE

Occupational Health and Safety Management System Certificate

Tianneng Battery Group Co.,Ltd.


SGS

Zhejiang Tianneng Automotive Battery Co., Ltd.

IATF 16949:2016



PRODUCT & SOLUTION

- **Transportation - Motive Battery**



Application

Moped	Low-speed EV	Wheelchair	Kid's Electric Bike
Electric Motorcycle	E-scooter	Electric Tricycle	Golf Cart
Tour Car	Sweeper		

PRODUCT SERIES

Performance	Technical Features	Lead Acid Battery		
		TNE	TNEP	TNEH
Long Mileage	Energy Density	★★★☆☆	★★★★★	★★★★☆
Service Life	Cycle Life	★★★★☆	★★★★☆	★★★★★
Great Gradeability	Continuous large Current	★★★☆☆	★★★★☆	★★★☆☆
Low-temp. Performance	Low-temp. Capacity	★★★☆☆	★★★☆☆	★★★★☆

PRODUCT FEATURE

TNE	400~600 Cycles @100%DOD	↑10% Energy Density Patent Structure Design	0% Acid Stratification Nano Silicon Gel Electrolytes	↑50% Anti-corrosion Patent Rare-earth Alloy
TNEH	↑20% Cycle Life 500~600 Cycles @100%DOD	↑10% Discharge Power Positive Carbon Fieber	↑5% Low Temp. Performance Negative Graphene	↑50% Anti-corrosion Patent Rare-earth Alloy
TNEP	↑10% Capacity Improved Special Active Formula	↑15% Discharge Power Positive Carbon Fieber	0% Acid Stratification Nano Silicon Gel Electrolytes	↑50% Anti-corrosion Patent Rare-earth Alloy

PRODUCT PRAMATER



TNE (GENERAL DEEP CYCLE BATTERY)

S/N	Model	Nominal Voltage (V)	Nominal Capacity C2/C3(Ah) 1.75Vpc/25°C	Nominal Capacity C5 (Ah) 1.75Vpc/25°C	Nominal Capacity C20 (Ah) 1.80Vpc/25°C	Dimension (±3mm)				Terminal
						L	W	H	TH	
1	TNE12-15	12	12	12.4	15	151	99	98	103	T2-1/I9
		12	12.6	13	15	151	99	98	103	T2-1/I9
2	TNE12-25	12	20	22.6	25	180	77	171	176	I10
		12	21.6	22.6	25	181	77	171	176	I10

TNE (GENERAL DEEP CYCLE BATTERY)

S/N	Model	Nominal Voltage (V)	Nominal Capacity C2/C3(Ah) 1.75Vpc/25°C	Nominal Capacity C5 (Ah) 1.75Vpc/25°C	Nominal Capacity C20 (Ah) 1.80Vpc/25°C	Dimension (±3mm)				Terminal
						L	W	H	TH	
3	TNE12-38	12	32	33.5	38	262	77	171	176	I10
		12	32.6	33.5	38	267	77	171	176	I10
4	TNE12-45L	12	38	40	45	222	105	175	180	I10
		12	40.6	40	45	222	106	173	178	I10
5	TNE12-52	12	45	46.8	52	224	117	175	180	I1
		12	46.6	46.8	52	224	120	175	180	I1
6	TNE12-58	12	52	53.6	58	224	131	175	180	I1
		12	52.6	53.6	58	224	135	175	180	I1
7	TNE12-65	12	58	60	65	224	145	175	180	I1
8	TNE6-190	6	150	160	190	260	180	245	251	I7
9	TNE6-250	6	200	220	250	260	180	270	275	I7
10	TNE6-250L	6	200	220	250	330	180	222	222	I7
11	TNE8-180	8	150	158	180	262	182	280	280	I7
12	TNE8-190	8	155	164	190	262	182	280	280	I7
13	TNE8-220	8	180	200	220	330	180	222	222	I7
14	TNE12-75	12	60	64	75	262	165	170	170	I3
15	TNE12-90	12	71	77	90	259	170	210	210	I3
16	TNE12-100	12	80	85	100.0	259	170	210	210	I3
17	TNE12-125	12	100	106	125	330	171	216	216	I7
18	TNE12-150	12	120	128	150	407	171	240	240	I7
19	TNE12-175	12	140	150	175	339	172	281	281	I7
20	TNE12-190	12	150	160	190	480	170	236	236	I7
21	TNE12-200	12	160	170	200	484	235	170	170	I7
22	TNE12-230	12	180	200	230	532	207	220	226	I7

PRODUCT PRAMATER



TNEH (DEEP CYCLE BLACK GOLD BATTERY)

S/N	Model	Nominal Voltage (V)	Nominal Capacity C2/C3(Ah) 1.75Vpc/25°C	Nominal Capacity C5 (Ah) 1.75Vpc/25°C	Nominal Capacity C20 (Ah) 1.80Vpc/25°C	Dimension (±3mm)				Terminal
						L	W	H	TH	
1	TNEH12-15	12	13.2	13.7	15	151	99	98	104	T2-1
2	TNEH12-27	12	22.3	23.5	27	181	77	171	171	I10
3	TNEH12-40	12	35.5	36.5	40	267	77	171	171	I10

PRODUCT PRAMATER



TNEP (DEEP CYCLE PREMIUM BATTERY)

S/N	Model	Nominal Voltage (V)	Nominal Capacity C2/3 (Ah) 1.75Vpc/25°C	Nominal Capacity C5 (Ah) 1.75Vpc/25°C	Nominal Capacity C20 (Ah) 1.80Vpc/25°C	Dimension (±3mm)				Terminal
						L	W	H	TH	
1	TNEP12-16	12	14	15	16	151	99	98	99	I9
2	TNEP12-28	12	23	24	28	181	77	170	170	I10
3	TNEP12-41	12	36	37	41	267	77	171	171	I10
4	TNEP12-42	12	34	36	42	195	130	157.5	162	I1
5	TNEP12-50	12	41	43	50	198.5	166	174	174	I3
6	TNEP12-60	12	46	49	60	229	138.5	211	216	I3
7	TNEP12-66	12	56	59	66	229	138.5	211	216	I3
8	TNEP6-240	6	187	200	240	260	180	245	251	I7
9	TNEP6-290	6	231	240	290	260	180	270	275	I7
10	TNEP6-400	6	285	320	400	295	178	345	350	I7

PRODUCT & SOLUTION

- **Transportation - Motive Battery**



Application

Electric Forklift	Sweeper	Electric Tricycle
Electric Four-wheels	Lift Truck	

PRODUCT FEATURE				
PzB/PzS	> 1500 Times Super Cycle Life	0% Acid Stratification Air Circulation System	↓45% Water Loss Patent Traction Alloy	↑50% Anti-corrosion Patent Traction Alloy

PRODUCT PRAMATER



PzB (Traction Battery BS Series)						
S/N	**Model**	**Nominal Capacity C5 (Ah) 1.70Vpc/30°C**	**Dimension (±2mm)**			
			L	**W**	**H**	**TH**
1	2PzB100	100	45	158	389	421
2	3PzB150	150	61	158	389	421
3	4PzB200	200	77	158	389	421
4	5PzB250	250	93	158	389	421
5	6PzB300	300	109	158	389	421
6	7PzB350	350	125	158	389	421
7	8PzB400	400	141	158	389	421
8	9PzB450	450	157	158	389	421
9	10PzB500	500	173	158	389	421
10	2PzB110	110	45	158	405	437
11	3PzB165	165	61	158	405	437

PzB (Traction Battery BS Series)

S/N	Model	Nominal Capacity C5 (Ah) 1.70Vpc/30°C	Dimension (±2mm)			
			L	W	H	TH
12	4PzB220	220	77	158	405	437
13	5PzB275	275	93	158	405	437
14	6PzB330	330	109	158	405	437
15	7PzB385	385	125	158	405	437
16	8PzB440	440	141	158	405	437
17	9PzB495	495	157	158	405	437
18	10PzB550	550	173	158	405	437
19	2PzB120	120	45	158	405	437
20	3PzB180	180	61	158	405	437
21	4PzB240	240	77	158	405	437
22	5PzB300	300	93	158	405	437
23	6PzB360	360	109	158	405	437
24	7PzB420	420	125	158	405	437
25	8PzB480	480	141	158	405	437
26	9PzB540	540	157	158	405	437
27	10PzB600	600	173	158	405	437
28	2PzB130	130	45	158	451	483
29	3PzB195	195	61	158	451	483
30	4PzB260	260	77	158	451	483
31	5PzB325	325	93	158	451	483
32	6PzB390	390	109	158	451	483
33	7PzB455	455	125	158	451	483

PzB (Traction Battery BS Series)

S/N	Model	Nominal Capacity C5 (Ah) 1.70Vpc/30°C	Dimension (±2mm)			
			L	W	H	TH
34	8PzB520	520	141	158	451	483
35	9PzB585	585	157	158	451	483
36	10PzB650	650	173	158	451	483
37	2PzB140	140	45	158	480	512
38	3PzB210	210	61	158	480	512
39	4PzB280	280	77	158	480	512
40	5PzB350	350	93	158	480	512
41	6PzB420	420	109	158	480	512
42	7PzB490	490	125	158	480	512
43	8PzB560	560	141	158	480	512
44	9PzB630	630	157	158	480	512
45	10PzB700	700	173	158	480	512
46	2PzB150	150	45	158	506	538
47	3PzB225	225	61	158	506	538
48	4PzB300	300	77	158	506	538
49	5PzB375	375	93	158	506	538
50	6PzB450	450	109	158	506	538
51	7PzB525	525	125	158	506	538
52	8PzB600	600	141	158	506	538
53	9PzB675	675	157	158	506	538
54	10PzB750	750	173	158	506	538
55	2PzB160	160	45	158	506	538

PzB (Traction Battery BS Series)

S/N	Model	Nominal Capacity C5 (Ah) 1.70Vpc/30°C	Dimension (±2mm)			
			L	W	H	TH
56	3PzB240	240	61	158	506	538
57	4PzB320	320	77	158	506	538
58	5PzB400	400	93	158	506	538
59	6PzB480	480	109	158	506	538
60	7PzB560	560	125	158	506	538
61	8PzB640	640	141	158	506	538
62	9PzB720	720	157	158	506	538
63	10PzB800	800	173	158	506	538
64	2PzB180	180	45	158	548	580
65	3PzB270	270	61	158	548	580
66	4PzB360	360	77	158	548	580
67	5PzB450	450	93	158	548	580
68	6PzB540	540	109	158	548	580
69	7PzB630	630	125	158	548	580
70	8PzB720	720	141	158	548	580
71	9PzB810	810	157	158	548	580
72	10PzB900	900	173	158	548	580
73	2PzB200	200	45	158	625	657
74	3PzB300	300	61	158	625	657
75	4PzB400	400	77	158	625	657
76	5PzB500	500	93	158	625	657
77	6PzB600	600	109	158	625	657

PzB (Traction Battery BS Series)

S/N	Model	Nominal Capacity C5 (Ah) 1.70Vpc/30°C	Dimension (±2mm)			
			L	W	H	TH
78	7PzB700	700	125	158	625	657
79	8PzB800	800	141	158	625	657
80	9PzB900	900	157	158	625	657
81	10PzB1000	1000	173	158	625	657
82	2PzB210	210	45	158	685	717
83	3PzB315	315	61	158	685	717
84	4PzB420	420	77	158	685	717
85	5PzB525	525	93	158	685	717
86	6PzB630	630	109	158	685	717
87	7PzB735	735	125	158	685	717
88	8PzB840	840	141	158	685	717
89	9PzB945	945	157	158	685	717
90	10PzB1050	1050	173	158	685	717
91	2PzB220	220	45	158	685	717
92	3PzB330	330	61	158	685	717
93	4PzB440	440	77	158	685	717
94	5PzB550	550	93	158	685	717
95	6PzB660	660	109	158	685	717
96	7PzB770	770	125	158	685	717
97	8PzB880	880	141	158	685	717
98	9PzB990	990	157	158	685	717
99	10PzB1100	1100	173	158	685	717

PzS (Traction Battery DIN Series)

S/N	Model	Nominal Capacity C5 (Ah) 1.70Vpc/30°C	Dimension (±2mm)			
			L	W	H	TH
1	2PzS120	120	47	198	323	355
2	3PzS180	180	65	198	323	355
3	4PzS240	240	83	198	323	355
4	5PzS300	300	101	198	323	355
5	6PzS360	360	119	198	323	355
6	7PzS420	420	137	198	323	355
7	8PzS480	480	155	198	323	355
8	9PzS540	540	174	198	323	355
9	10PzS600	600	192	198	323	355
10	2PzS140	140	47	198	380	412
11	3PzS210	210	65	198	380	412
12	4PzS280	280	83	198	380	412
13	5PzS350	350	101	198	380	412
14	6PzS420	420	119	198	380	412
15	7PzS490	490	137	198	380	412
16	8PzS560	560	155	198	380	412
17	9PzS630	630	174	198	380	412
18	10PzS700	700	192	198	380	412
19	2PzS160	160	47	198	403	435
20	3PzS240	240	65	198	403	435
21	4PzS320	320	83	198	403	435
22	5PzS400	400	101	198	403	435
23	6PzS480	480	119	198	403	435
24	7PzS560	560	137	198	403	435
25	8PzS640	640	155	198	403	435

PzS (Traction Battery DIN Series)

S/N	Model	Nominal Capacity C5 (Ah) 1.70Vpc/30°C	Dimension (±2mm)			
			L	W	H	TH
26	9PzS720	720	174	198	403	435
27	10PzS800	800	192	198	403	435
28	2PzS180	180	47	198	473	505
29	3PzS270	270	65	198	473	505
30	4PzS360	360	83	198	473	505
31	5PzS450	450	101	198	473	505
32	6PzS540	540	119	198	473	505
33	7PzS630	630	137	198	473	505
34	8PzS720	720	155	198	473	505
35	9PzS810	810	174	198	473	505
36	10PzS900	900	192	198	473	505
37	2PzS210	210	47	198	513	545
38	3PzS315	315	65	198	513	545
39	4PzS420	420	83	198	513	545
40	5PzS525	525	101	198	513	545
41	6PzS630	630	119	198	513	545
42	7PzS735	735	137	198	513	545
43	8PzS840	840	155	198	513	545
44	9PzS945	945	174	198	513	545
45	10PzS1050	1050	192	198	513	545
46	2PzS230	230	47	198	548	580
47	3PzS345	345	65	198	548	580
48	4PzS460	460	83	198	548	580
49	5PzS575	575	101	198	548	580
50	6PzS690	690	119	198	548	580

PzS (Traction Battery DIN Series)

S/N	Model	Nominal Capacity C5 (Ah) 1.70Vpc/30°C	Dimension (±2mm)			
			L	W	H	TH
51	7PzS805	805	137	198	548	580
52	8PzS920	920	155	198	548	580
53	9PzS1035	1035	174	198	548	580
54	10PzS1150	1150	192	198	548	580
55	2PzS240	240	47	198	576	608
56	3PzS360	360	65	198	576	608
57	4PzS480	480	83	198	576	608
58	5PzS600	600	101	198	576	608
59	6PzS720	720	119	198	576	608
60	7PzS840	840	137	198	576	608
61	8PzS960	960	155	198	576	608
62	9PzS1080	1080	174	198	576	608
63	10PzS1200	1200	192	198	576	608
64	2PzS250	250	47	198	576	608
65	3PzS375	375	65	198	576	608
66	4PzS500	500	83	198	576	608
67	5PzS625	625	101	198	576	608
68	6PzS750	750	119	198	576	608
69	7PzS875	875	137	198	576	608
70	8PzS1000	1000	155	198	576	608
71	9PzS1125	1125	174	198	576	608
72	10PzS1250	1250	192	198	576	608
73	2PzS280	280	47	198	680	712
74	3PzS420	420	65	198	680	712
75	4PzS560	560	83	198	680	712

PzS (Traction Battery DIN Series)

S/N	Model	Nominal Capacity C5 (Ah) 1.70Vpc/30°C	Dimension (±2mm)			
			L	W	H	TH
76	5PzS700	700	101	198	680	712
77	6PzS840	840	119	198	680	712
78	7PzS980	980	137	198	680	712
79	8PzS1120	1120	155	198	680	712
80	9PzS1260	1260	174	198	680	712
81	10PzS1400	1400	192	198	680	712
82	2PzS300	300	47	198	680	712
83	3PzS450	450	65	198	680	712
84	4PzS600	600	83	198	680	712
85	5PzS750	750	101	198	680	712
86	6PzS900	900	119	198	680	712
87	7PzS1050	1050	137	198	680	712
88	8PzS1200	1200	155	198	680	712
89	9PzS1350	1350	174	198	680	712
90	10PzS1500	1500	192	198	680	712
91	2PzS310	310	47	198	723	755
92	3PzS465	465	65	198	723	755
93	4PzS620	620	83	198	723	755
94	5PzS775	775	101	198	723	755
95	6PzS930	930	119	198	723	755
96	7PzS1085	1085	137	198	723	755
97	8PzS1240	1240	155	198	723	755
98	9PzS1395	1395	174	198	723	755
99	10PzS1550	1550	192	198	723	755

PRODUCT & SOLUTION

- **Automobile Battery - Starter Battery**



Application

- Car starting
- Ship starting
- Oiler starting

PRODUCT SERIES

Performance	Technical Features	Lead Acid Battery				
		TA (C)	TA (P)	TA (S)	TAS (EFB)	TAA (AGM)
Starting Ability	CCA	★☆☆☆☆	★★☆☆☆	★★★☆☆	★★★★☆	★★★★★
Service Life	Cycle Life	★★★☆☆	★★★★☆	★★★☆☆	★★★★☆	★★★★★
High-temp Tolerance	High-temp Peformance	★★★★★	★★★★★	★★★★★	★★★★★	★★★☆☆
Easy Maintenance	Maintenance Free	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★

PRODUCT FEATURE

TA	SLA battery,Maintenance Free	Stronger Starting Capacity	Excellent Charging Acceptance	Excellent Vibration Resistance
TAS(EFB)	2 Times Longer Cycle life than SLA Battery	1.1 Times Larger CCA than SLA Battery	Excellent Charging Acceptance	Excellent Vibration Resistance
TAA(AGM)	3 Times Longer Cycle life than SLA Battery	1.2 Times Larger CCA than SLA Battery	Excellent Charging Acceptance	Excellent Vibration Resistance

PRODUCT PRAMATER



TA (Classic)

S/N	Model	International Model	International Standard	Nominal Voltage (V)	Nominal Capacity C20 (Ah) 1.75Vpc/25°C	Rc (min)	CCA/-18°C (A)	Dimension /+2mm				Terminal	Layout	Series
								L	W	H	TH			
								±1	±1	±2	±2.5			
1	TA29280	38B20	JIS	12	29	42	245	197	129	201	222	T1	R/L	C
2	TA37325	46B24	JIS	12	40	60	325	238	129	201	222	T1/T2	R/L	C
		46B24LX	JIS	12	40	60	325	238	129	201	222	T2	L	C
3	TA51425A	55D23L	JIS	12	51	80	425	230	171	203	223	T2	L	C
4	TA55435	75D23L	JIS	12	57	93	455	230	171	203	223	T2	L	C
5	TA51425B	55D26	JIS	12	55	88	425	259	171	203	223	T2	R/L	C

TA (Classic)

S/N	Model	International Model	International Standard	Nominal Voltage (V)	Nominal Capacity C20 (Ah) 1.75Vpc/25°C	Rc (min)	CCA/-18°C (A)	Dimension /+2mm				Terminal	Layout	Series
								L	W	H	TH			
								±1	±1	±2	±2.5			
6	TA63500	80D26	JIS	12	66	110	520	259	171	203	223	T2	R/L	C
7	TA69530	95D31	JIS	12	74	125	560	305	171	203	223	T2	R/L	C
8	TA90680	105E41R	JIS	12	100	180	700	408	173	205	226	T2/B	R	C
9	TA49470	86 610	BCI	12	59	96	490	230	171	183	202	T2	R/L	C
10	TA40370	58 500	BCI	12	44	68	370	248	172	156	177	T2	R	C
11	TA54425	L2 400	EN	12	53	85	425	241	175	189	189	T2	R/L	C
12	TA66540	57220	EN	12	66	110	540	276	174	189	189	T2	L	C
13	TA59480	56618	EN	12	61	100	525	276	174	174	174	T2	L	C
14	TA38300	54565	EN	12	40	60	350	206	174	174	174	T2	L	C
15	TA103720	130E41R	JIS	12	109	198	780	408	173	205	226	T2/B	R	C
16	TA108700	N120	JIS	12	108	210	700	503	183	203	225	T2	R	C
17	TA120700A	N135	JIS	12	120	223	700	503	183	203	232	T2	R	C
18	TA120800	N150	JIS	12	120	240	800	505	211	193	225	T2	R	C
19	TA130820	N165	JIS	12	130	255	820	505	211	193	225	T2	R	C
20	TA165900A	N200	JIS	12	165	340	900	513	268	216	245	T2	R	C

TA (Premium)

S/N	Model	International Model	International Standard	Nominal Voltage (V)	Nominal Capacity C20 (Ah) 1.75Vpc/25°C	Rc (min)	CCA/-18℃ (A)	Dimension /+2mm				Terminal	Layout	Series
								L	W	H	TH			
								±1	±1	±2	±2.5			
1	TA34300	38B20	JIS	12	34	50	300	197	129	201	222	T1	R/L	P
2	TA60480B	55D23	JIS	12	56	90	480	230	171	203	223	T2	L	P
		75D23	JIS	12	59	96	520	230	171	203	223	T2	R/L	P
3	TA60500C	55D26	JIS	12	56	90	500	259	171	203	223	T2	R/L	P
4	TA70580C	80D26	JIS	12	66	110	580	259	171	203	223	T2	R/L	P
5	TA80620B	95D31	JIS	12	74	125	620	305	171	203	223	T2	R/L	P
6	TA100720B	115E41R	JIS	12	92	163	720	408	173	205	226	T2/B	R	P
7	TA48430B	58500	BCI	12	45	70	430	248	172	156	177	T2	R	P
8	TA60500D	L2 400	EN	12	56	90	500	241	174.5	189	189	T2	R/L	P
9	TA72650B	57220	EN	12	69	116	650	276	174	189	189	T2	L	P
10	TA54460B	55415	EN	12	49	77	460	276	174	174	174	T2	L	P
11	TA66590B	56618	EN	12	61	99	590	276	174	174	174	T2	L	P
12	TA120850B	130E41R	JIS	12	109	198	850	408	173	205	226	T2/B	R	P

TA (Super)

S/N	Model	International Model	International Standard	Nominal Voltage (V)	Nominal Capacity C20 (Ah) 1.75Vpc/25°C	Rc (min)	CCA/-18℃ (A)	Dimension /+2mm				Terminal	Layout	Series
								L	W	H	TH			
								±1	±1	±2	±2.5			
1	TA36325	38B20	JIS	12	36	55	325	197	129	201	222	T1	R/L	S
2	TA45380	55B24	JIS	12	45	64	400	238	129	201	222	T1/T2	R/L	S
		55B24LX	JIS	12	45	64	400	238	129	201	222	T2	L	S
3	TA60480	65D23	JIS	12	65	108	510	230	171	203	223	T2	L	S
4	TA65520	80D23	JIS	12	68	114	550	230	171	203	223	T2	R/L	S
5	TA60500A	65D26	JIS	12	65	108	520	259	171	203	223	T2	R/L	S
6	TA70580B	90D26	JIS	12	75	128	600	259	171	203	223	T2	R/L	S
7	TA80620	105D31	JIS	12	85	148	660	305	171	203	223	T2	R/L	S
8	TA100720	115E41R	JIS	12	105	190	780	408	173	205	226	T2/B	R	S
9	TA55550	86610	BCI	12	55	94	580	230	171	183	202	T2	R/L	S
10	TA48430	58500	BCI	12	50	79	460	248	172	156	177	T2	R	S
11	TA45350	54565	EN	12	45	71	390	206	174	174	174	T2	L	S
12	TA60500B	L2 450	EN	12	62	102	560	241	174.5	189	189	T2	R/L	S
13	TA72650	57520	EN	12	75	128	660	276	174	189	189	T2	L	S
14	TA66590	56618	EN	12	66	116	610	276	174	174	174	T2	L	S
15	TA80680	58043	EN	12	82	142	700	314	174	189	189	T2	L	S
16	TA88720	58827	EN	12	88	157	720	351.8	174	189	189	T2	L	S
17	TA100800	60044	EN	12	100	185	800	351.8	174	189	189	T2	L	S
18	TA120850	130E41R	JIS	12	120	223	870	408	173	205	226	T2/B	R	S
19	TA120700B	N120	JIS	12	120	223	700	503	183	203	225	T2	R	S
20	TA130800	N135	JIS	12	130	255	800	503	183	203	232	T2	R	S
21	TA145850	N150	JIS	12	145	285	850	505	211	193	225	T2	R	S
22	TA155850	N165	JIS	12	155	310	850	505	211	193	225	T2	R	S
23	TA165900B	N180	JIS	12	165	325	900	505	211	193	225	T2	R	S
24	TA1801000	N180	JIS	12	180	340	1000	505	211	193	225	T2	L	S
25	TA1901000	N200	JIS	12	190	400	1000	513	268	216	245	T2	R	S
26	TA2001100	N220	JIS	12	200	400	1100	513	268	216	245	T2	L	S

PRODUCT PRAMATER



TAS (EFB)													
S/N	Model	International Model	International Standard	Nominal Voltage (V)	Nominal Capacity C20 (Ah) 1.75Vpc/25°C	Rc (min)	CCA/-18℃ (A)	Dimension /+2mm				Terminal	Layout
								L	W	H	TH		
								±1	±1	±2	±2.5		
1	TAS60610	Q85	JIS	12	60	117	610	230	171	203	223	T2	R/L
2	TAS75660	S95	JIS	12	75	137	660	259	171	203	223	T2	L
3	TAS60640	H5(LN2)	EN	12	60	117	640	241	175	189	189	T2	R/L
4	TAS70700	H6(LN3)	EN	12	70	137	700	276	174	189	189	T2	L
5	TAS80750	H7(LN4)	EN	12	80	157	750	314	174	189	189	T2	L
6	TAS75700	T7(LBN4)	EN	12	75	142	700	314	174	175	175	T2	L

PRODUCT PRAMATER



TAA (AGM)													
S/N	Model	International Model	International Standard	Nominal Voltage (V)	Nominal Capacity C20 (Ah) 1.75Vpc/25°C	Rc (min)	CCA/-18℃ (A)	Dimension /+2mm				Terminal	Layout
								L	W	H	TH		
								±1	±1	±2	±2.5		
1	TAA60660	H5(LN2)	EN	12	60	98	660	242	175	190	190	T2	L
2	TAA70760	H6(LN3)	EN	12	70	120	760	278	175	190	190	T2	L
3	TAA80800	H7(LN4)	EN	12	80	138	800	315	175	190	190	T2	L
4	TAA92850	H8(LN5)	EN	12	92	163	850	353	175	190	190	T2	L
5	TAA105950	H9(LN6)	EN	12	105	190	950	394	175	190	190	T2	L

PRODUCT & SOLUTION

- **Energy and Electricity - Storage Battery**



Application

- Solar Energy
- Signal
- Electric Power
- Wind Energy
- Data Center
- Ups/eps
- Alarm&safety System
- Industry Application
- Communication

PRODUCT SERIES

Performance	Technical Features	Lead Acid Battery	
		TNG	TNC
Service Life	Cycle Life	★★★☆☆	★★★★★
	Float Life	★★★★★	★★★☆☆
Partial Statue of Charge	PSoC Performance	★★★★☆	★★★★★
Wide Temperature Range	Temperature Tolerance	★★★★☆	★★★☆☆

PRODUCT FEATURE

TNG	GEL Technology	↑20% Cycle Life 260~300 Cycle Times	↑10% Low Temp Capacity Nano Gel Electrolyte	↑20% Charge Acceptance Special Negative Additive
TNC	Lead carbon Technology	60% Dod≥2500 Times	Multi-element Patent Rare Earth Alloy	HRPSoC Technology

PRODUCT PRAMATER



TNG (GENERAL PURPOSE GEL BATTERY)								
S/N	Model	Nominal Voltage (V)	Nominal Capacity C_{10} (Ah) 1.80Vpc/25°C	Dimension (mm)				Terminal
				L	W	H	TH	
1	TNG12-90	12	90	306.5	168	208.5	211	I3
2	TNG12-100	12	100	330	172	214	221.5	I7
3	TNG12-150	12	150	480	170	240	240	I7
4	TNG12-200	12	200	520	239	220	225	I7
5	TNG12-250	12	250	520	268	220	225	I7

PRODUCT PRAMATER



TNC (LEAD CARBON (Pb-C) BATTERY)								
S/N	Model	Nominal Voltage (V)	Nominal Capacity C_{10} (Ah) 1.80Vpc/25°C	Dimension (mm)				Terminal
				L	W	H	TH	
1	TNC12-65P	12	65	260	168	211	213.5	I3
2	TNC12-80P	12	80	330	172	214	221.5	I7
3	TNC12-100P	12	100	408	171	225	225	I7
4	TNC12-150P	12	150	532	207	220	226	I7
5	TNC12-170P	12	170	520	239	220	225	I7

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