VRLA Battery **TS 12-42** 12V 42AH

TEC - TS Series VRLA Battery

TEC Pro-TM Series—Medium-size batteries

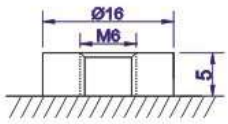
- High performance, completely maintenance-free, low self-discharge
- 100% precise quality testing, stable quality and high reliable performance
- Unique grid alloy formula and updated manufacturing technique
- Floating & standby use:up to 8 years
- Cycle use 1: Up to 260 cycles at 100% DOD
- Cycle use 2: Up to 500 cycles at 50% DOD

Application:

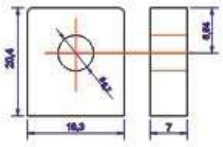
- Telecommunications
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Alarm and security system
- Communication power supply
- DC power supply
- Auto control system

Construction:

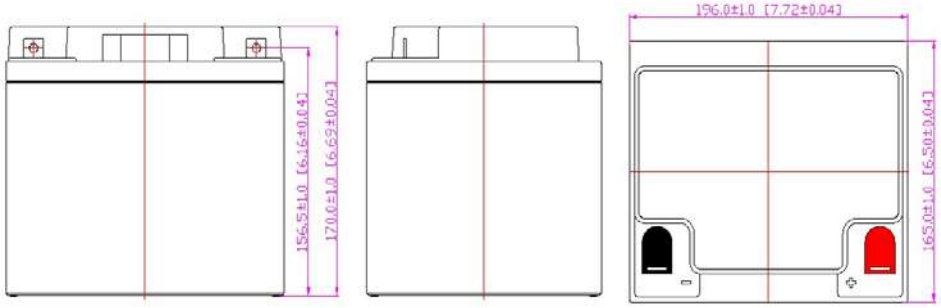
- Component .....Raw material
- Positive .....Lead dioxide
- Negative .....Lead
- Container .....ABS
- Cover .....ABS
- Sealant .....Epoxy
- Safety valve .... Rubber
- Terminal .....Copper/Pb
- Separator .....Fiber glass
- Electrolyte ..... Sulfuric acid



M6 Bolt



M6 Bolt & Nut



B4 Terminal

T11 Terminal

Specification:

Battery Model	TEC Pro - TS 12-42			
Designed Floating Life	Up to 8 Years			
Capacity (25 ℃)	20HR(2.19A,10.8V)	10HR(4.20A,10.8V)	5HR(8.02A,10.5V)	1HR(26.84A,10.5V)
	43.80AH	42.00AH	40.10AH	26.84AH
Dimensions	Length	Width	Height	Total Height
	201mm	166mm	170mm	170mm
Approx. Weight	13.3Kg			
Internal Resistance	Full charged at 25℃ :≤10.0m			
Self Discharge	2% of capacity declined per month at (25 ℃)			
Capacity Affected by Temp.(20HR)	40 ℃	25 ℃	0 ℃	-15 ℃
	102%	100%	85%	65%
Charge Voltage(25 ℃)	Cycle use		Float use	
	14.40-15.00V(-30mV/℃), max.Current:10.0A		13.50-13.80V (-20mV/ ℃)	

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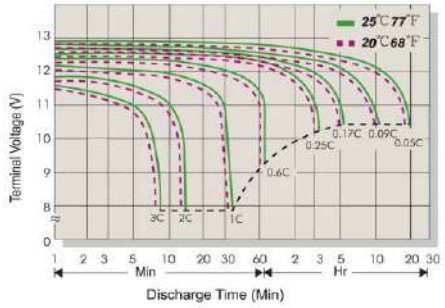
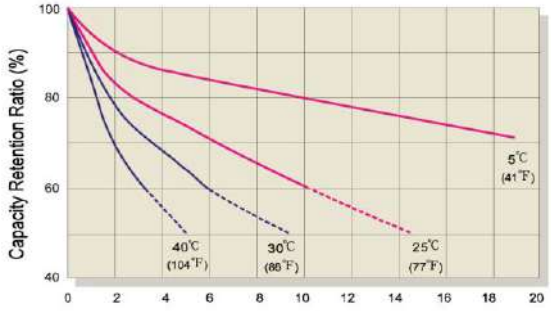
VRLA Battery TS 12-42 12V 42AH

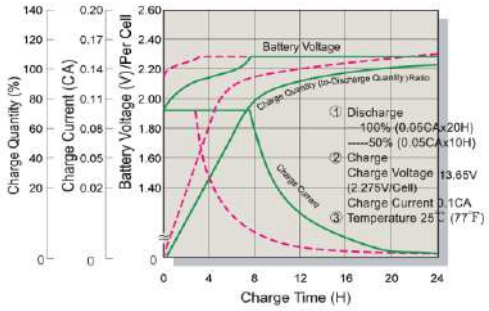
Terminal Voltage (V) and Discharge Time



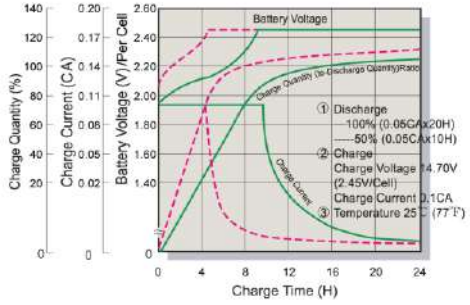
Capacity Retention Characteristic



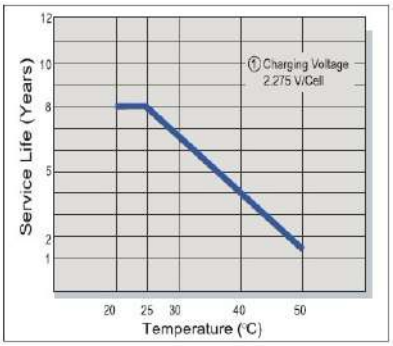
Battery Voltage and Charge Time for Standby Use



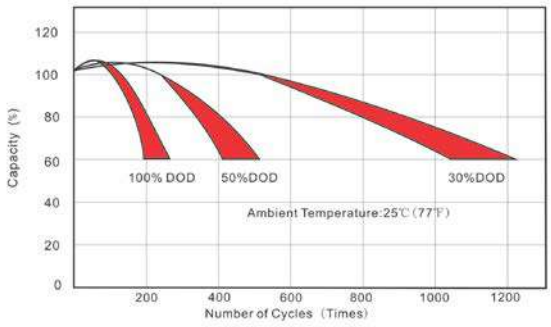
Battery Voltage and Charge Time for Cycle Use



Tickle(or Float) Service Life



Cycle Service Life



Constant Current Discharge(CC,Unit:A) at 25°C												
F.V/Time	5Min	10Min	15Min	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	6Hr	10Hr	20Hr
1.85V/Cell	146.48	86.47	67.96	44.30	25.86	14.95	11.48	9.42	7.72	6.30	4.13	2.15
1.80V/Cell	149.28	88.12	69.26	45.15	26.35	15.23	11.70	9.60	7.87	6.42	4.20	2.19
1.75V/Cell	152.08	89.78	70.56	45.99	26.84	15.52	11.92	9.78	8.02	6.54	4.28	2.23
1.70V/Cell	165.77	95.16	74.79	47.83	27.32	15.79	12.13	9.96	8.16	6.65	4.36	2.27
1.67V/Cell	182.50	103.24	81.14	50.50	27.61	15.96	12.26	10.06	8.25	6.72	4.41	2.29
Constant Power Discharge (CP,Unit:W) at 25°C												
F.V/Time	5Min	10Min	15Min	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	6Hr	10Hr	20Hr
1.85V/Cell	285.64	168.62	132.53	86.39	50.42	29.15	22.38	18.38	15.06	12.28	8.05	4.18
1.80V/Cell	291.10	171.84	135.06	88.04	51.38	29.70	22.81	18.73	15.35	12.51	8.19	4.26
1.75V/Cell	296.56	175.06	137.59	89.69	52.34	30.26	23.24	19.08	15.64	12.75	8.35	4.34
1.70V/Cell	323.25	185.57	145.85	93.27	53.27	30.79	23.64	19.42	15.91	12.97	8.50	4.42
1.67V/Cell	355.87	201.32	158.23	98.48	53.84	31.12	23.90	19.62	16.08	13.11	8.59	4.47