DATASHEET (1/2)

Cyclic & Emergency Application Battery

Range: **CYCLIC AGM**
Type name: **TBC12-50**
Barcode: **8436594880506**

PERFORMANCES*		CONFIGURATION	
Voltage:	12 V	Size:	197x165x170 mm
Capacity:	50 Ah (20h)	Polarity:	0
Cap. 5/10/100h:	42/48/55 Ah	Terminal:	M (M6 thread)
Energy at 100h:	0,66 kWh	Holddown:	-
Cycles at 50%:	1000	Ventilation	Valve regulated (VRLA)
Max. current:	456 A (5seg)	Maintenance:	Not required (MF)
Int. Resistance:	9 mΩ		
Self-Discharge:	15 months (from the date of production, at 25°C)		

*According to standards IEC 60254/60896

INTERNAL CONSTRUCTION		COMPONENTS	
Technology:	Manufacturer-sealed AGM	Container:	ABS/light grey
		Lid:	ABS/dark grey
Alloy:	Calcium	Plugs:	Termal sealing, ABS/dark grey
Separator:	AGM (glass mat)	Handles:	-
Total Weight:	14 kg		
Origin:	Asia		

RECOMMENDATIONS	
Storage:	Check voltage every 8 months.
Recharge:	Use automatic chargers with constant voltage and AGM setup.
Installation:	Use the apropriate cable section and length. Keep connections tight.

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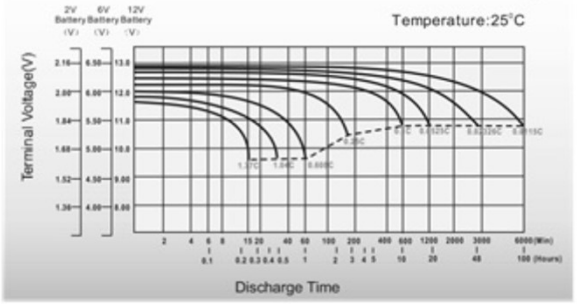
TABLES & CHARTS CYCLIC AGM TBC12-50

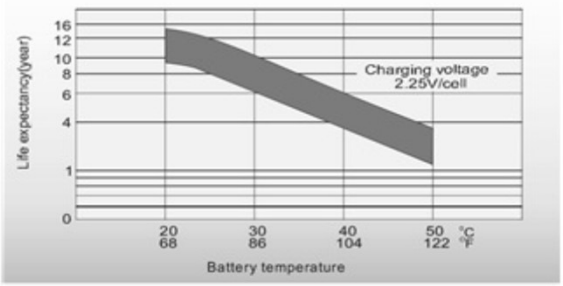
TBC12-50 Constant Current Discharge (Amperes) at 25 °C														
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	55.6	46.8	40.9	29.4	23.4	19.0	11.8	9.19	7.44	6.05	5.28	4.31	3.59	2.02
1.80V/cell	71.1	56.6	48.4	34.7	27.2	21.3	12.9	9.89	7.95	6.49	5.66	4.57	3.80	2.04
1.75V/cell	78.1	61.8	52.0	36.1	28.2	22.2	13.3	10.1	8.12	6.67	5.81	4.65	3.84	2.06
1.70V/cell	85.1	66.0	54.7	37.5	29.3	22.9	13.9	10.4	8.34	6.83	5.94	4.71	3.88	2.09
1.65V/cell	91.9	70.1	58.1	39.6	30.1	23.7	14.3	10.8	8.63	7.02	6.06	4.79	3.96	2.12
1.60V/cell	99.8	75.0	61.9	41.8	31.4	24.5	14.7	11.1	8.90	7.25	6.20	4.83	4.00	2.13

TBC12-50 Constant Power Discharge (Watts/cell) at 25 °C														
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	103.8	88.3	78.0	56.6	45.2	36.8	23.0	18.0	14.6	11.9	10.42	8.52	7.11	4.04
1.80V/cell	130.9	105.1	90.8	65.9	52.2	41.0	24.9	19.2	15.5	12.7	11.14	9.02	7.52	4.07
1.75V/cell	142.0	113.6	96.8	68.1	53.9	42.7	25.8	19.5	15.8	13.0	11.43	9.17	7.59	4.10
1.70V/cell	152.6	120.4	101.2	70.6	55.9	44.0	26.7	20.0	16.2	13.3	11.65	9.29	7.66	4.18
1.65V/cell	163.6	127.2	107.0	74.2	57.1	45.3	27.4	20.8	16.7	13.7	11.89	9.43	7.81	4.22
1.60V/cell	174.6	134.4	112.8	77.5	58.9	46.5	28.1	21.4	17.2	14.1	12.12	9.51	7.89	4.24

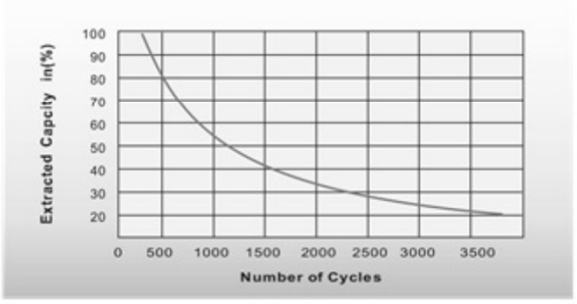
Discharge Characteristics



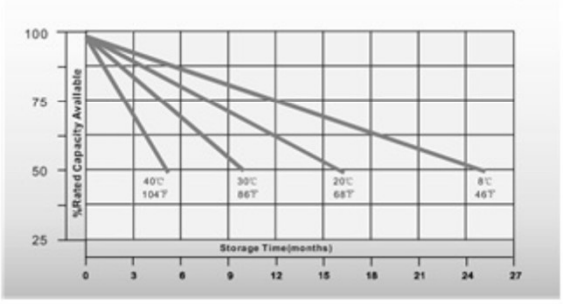
Effect of Temperature on Long Term Float Life

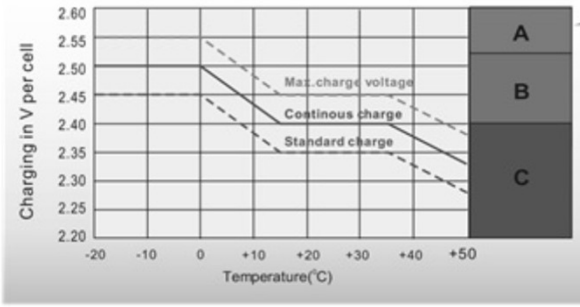


Cycle Service Life



Self-Discharge at Different Temperatures





Charge Mode

A With switch regulator (two-step controller) charge on curve max.charge voltage for max.2 hrs/day then switch over to continous charge

B Standard charge without switching

C Boost charge (Equalizing charge with external generator) charge on curve continous charge for max. 5 hrs/month, then switch over to curve Standard charge

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