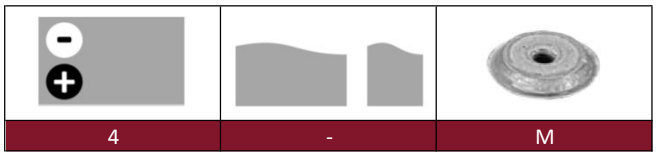
DATASHEET (1/2)

Cyclic Application Battery

Range: **POWERBLOCK**
Type name: **DB12-225**



4	-	M

PERFORMANCES*		CONFIGURATION	
Voltage:	12 V	Size:	522x240x218 mm (6D)
Capacity:	220 Ah (20h)	Polarity:	4
Cap. 5/10/100h:	175/200/230 Ah	Terminal:	M (M8 thread)
Energy at 100h:	2,76 kWh	Holddown:	-
Cycles at 50%:	1200	Ventilation	Valve regulated (VRLA)
Max. current:	2000 A (5seg)	Maintenance:	Not required (MF)
Int. Resistance:	3 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:	On container, rope/white
Total Weight:	65 kg		
Origin:	Nederland		

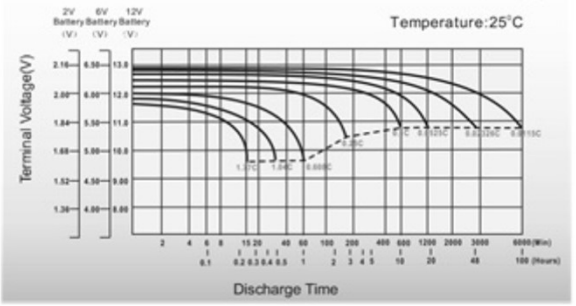
RECOMMENDATIONS	
Storage:	Check voltage every 8 months.
Recharge:	Use automatic chargers with constant voltage and AGM setup.
Installation:	Use the apropriate cable section and length. Keep connections tight.

TABLES & CHARTS POWERBLOCK DB12-225

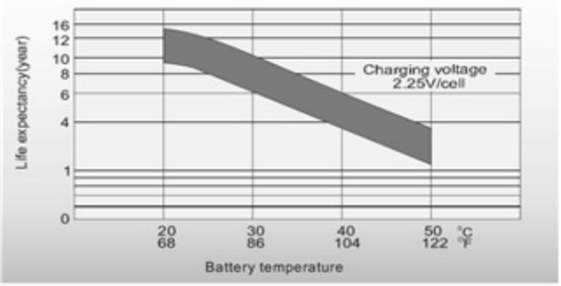
DB12-225 Constant Current Discharge (Amperes) at 25 °C														
F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h	48h	100h
1.85V/cell	227.5	189.0	146.8	116.3	94.1	61.3	46.3	37.9	32.0	22.4	19.2	10.2	4.58	2.25
1.80V/cell	252.2	207.9	158.4	123.5	99.2	65.2	48.8	39.7	33.6	23.5	20.0	10.5	4.65	2.30
1.75V/cell	279.8	227.7	170.4	132.0	107.0	68.3	51.5	41.5	34.9	24.2	20.4	10.7	4.73	2.32
1.70V/cell	305.7	248.7	187.2	137.9	113.0	72.0	54.0	43.2	36.3	25.1	21.1	10.9	4.78	2.35
1.65V/cell	323.7	262.5	197.2	146.4	116.9	74.5	56.0	44.7	37.6	25.7	21.5	11.2	4.87	2.39
1.60V/cell	354.8	285.0	209.6	151.7	121.5	77.6	57.9	46.1	38.9	26.4	22.0	11.5	4.95	2.41

DB12-225 Constant Power Discharge (Watts/cell) at 25 °C														
F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h	48h	100h
1.85V/cell	462.8	358.2	281.3	224.7	183.0	119.7	90.6	74.4	63.1	44.4	38.1	20.3	9.16	4.51
1.80V/cell	466.8	388.2	298.9	235.7	191.3	126.4	95.0	77.6	65.9	46.4	39.7	20.9	9.28	4.59
1.75V/cell	511.5	421.2	318.9	250.7	205.4	131.9	100.0	80.8	68.2	47.7	40.5	21.3	9.41	4.62
1.70V/cell	551.1	456.6	348.4	260.8	216.2	138.7	104.6	84.1	70.9	49.5	41.8	21.7	9.51	4.68
1.65V/cell	581.4	480.1	365.5	275.7	222.9	143.1	108.2	86.8	73.2	50.7	42.7	22.2	9.67	4.74
1.60V/cell	624.3	513.7	384.2	283.0	229.6	147.9	111.1	89.1	75.4	51.9	43.5	22.7	9.83	4.78

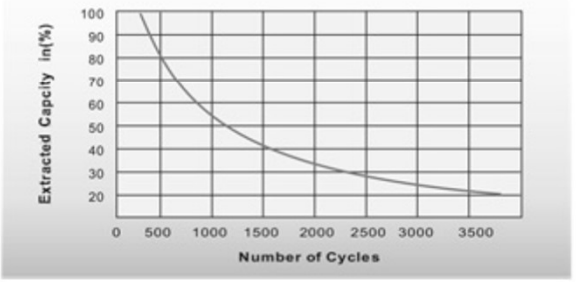
Discharge Characteristics



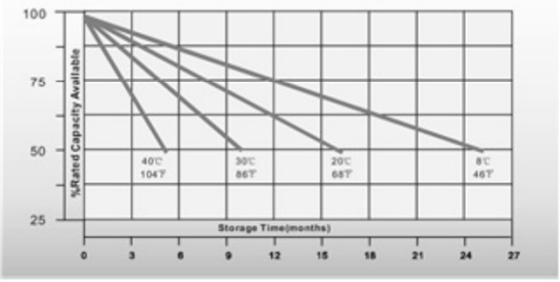
Effect of Temperature on Long Term Float Life

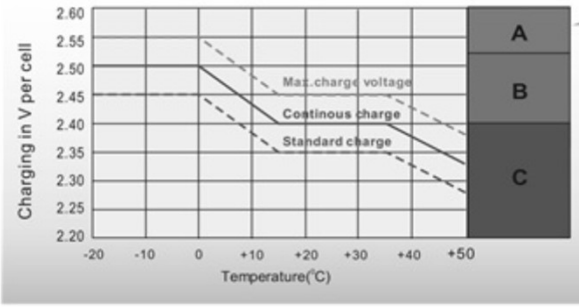


Cycle Service Life



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