


# Certificate of Test

As required by BS 6290:Part 4:1997, the Type Test Certificate below is issued by Intertek Testing and Certification Limited for Vision battery models 6FM80 and 6FM200 to confirm the level of performance achieved for the test procedures specified in the BS and described in Intertek Final Report Number 04014027, July 2005.

Type test certificate: BS 6290: Part 4: 1997			6FM80	6FM200
<b>Safety</b>				
Flammability of container	6.2.1	1) State of rating achieved	FVO	FVO
Gas emission	6.3	2) State of emission value ( $G_c$ ml/cell Ah/hour)	0.008	0.009
High current endurance	6.4	3) State of whether pass (H) or (L)	L	L
<b>Performance</b>				
Rated capacity conformity level	7.1	4) State % conformity at 5 min	99.9%	99.9%
	7.1	5) State % conformity at 15 min	99.9%	99.9%
	7.1	6) State % conformity at 1 hour	99.9%	99.9%
	7.1	7) State % conformity at 3 hours	99.9%	99.9%
	7.1	8) State % conformity at 8 hours	99.9%	99.9%
	7.1	9) State % conformity at 10 hours	99.9%	99.9%
Charge retention	7.3	10) State value ( $C_{10}$ )	96.4%	89.6%
Internal resistance	7.4	11) State value ( $R_i$ )	0.0055 ohm	0.0034 ohm
<b>Durability</b>				
Life at elevated temperature	8.1	12) State endurance/float volts	>294/8/2.27V	>294/8/2.27V
	8.1	13) State endurance/float volts	>294/1/2.27V	>294/1/2.27V
Float voltage characteristics	8.2.1	14) State float voltage ( $U_{f1}$ )	2.27V	2.27V
	8.2.3	15) State maximum unit capacity reduction	12.1%	9.3%
	8.2.2	16) $U_{MAX} < (U_{f1} \pm 3\%) < U_{MIN}$	Pass	Pass
	8.2.4	17) $C_{2A} > C_3$	Pass	Pass
Pillar seal assembly	8.3	18) State which test: E.3.1 or E.3.2	E.3.2	E.3.2
	8.3	19) State number of days on test	294	294
Manufacturer:	Shenzhen Center Power Tech. Co., Ltd			
Address:	Center Power Industrial Park, Tongfu Industrial District Dapeng Town, 518120 Shenzhen, China			
Product:	Vision VRLA Batteries			
Types:	FM80 and FM200			
* Test terminated before failure				



Signed:



A T Austin  
Head of Department

Date of issue: July 2005

Certificate No: 05 3746  
Reference No: 04014027

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