



## Test Report

Sacred Sun Power Sources Co.,Ltd  
No1,Shengyang Road, Qufu ,Shandong, P.R.C

Report No. :SPS/2008/03434A  
Date : 2008/09/03

**The following information was(were) submitted and identified by the manufacturer as:**

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Product manufacturer: Shandong Sacred Sun Power Sources Industry Co.,Ltd  
Product name : Valve Regulate Lead-acid Battery  
Product model range : FT series  
Product details : FTA12-55/FTA12-80/FTA12-95/FTA12-100/FTB12-100/FTB12-105  
FTA12-125/FTB12-125/FTA12-150/FTB12-150/FTA12-175/FTB12-175  
Product tested : FTA12-100  
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**Test result** : - Please see the next page -

Jiaowei Zhu, M.R./Operation Manager  
Signed for and on behalf of  
Sacred Sun Power Sources Industry

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### Test result with IEC 60896-21/22:

Product safe operation in service		IEC 60896-21 test clause result				
6.1 Gas emission	Ge(maxi in float charge)= 0.0002(ml/ h · Ah) C <sub>3</sub>	Ge(over-charge)= 0.04(ml/ h · Ah)C <sub>3</sub>				
6.2 High current tolerance	Pass					
6.3 Short circuit and d.c. internal resistance	Short circuit = 2721A Internal resistance = 4.8mOhm					
6.4 Internal ignition from external spark sources	Pass					
6.5 Protection against ground short propensity	Pass					
6.6 Content and durability of required markings	Pass					
6.7 Material identification	information still remain readable after exposure to chemical and remain in place					
6.8 Valve operation	Before: Pass			After: Pass		
6.9 Flammability rating of materials	BOX FR V0			Lid FR V0		
6.10 Intercellular connector performance	48℃					
Product performance in service		IEC 60896-21 test clause result				
6.11 Discharge capacity	111% C <sub>10</sub>	110% C <sub>8</sub>	109% C <sub>3</sub>	112% C <sub>1</sub>	115% C <sub>0.25</sub>	
6.12 Charge retention during storage	88.3%~89.2%					
6.13 Float service with daily discharges	497 Cycles		C <sub>af</sub> =46.6%		C <sub>ab</sub> =53.2%	
6.14 Recharge behavior	24h: >94. 5%			24h: >99. 5%		
Product durability in service		IEC 60896-21 test clause result				
6.15 Float service life at 40℃	In progress					
6.16 Impact of stress temperature of 55℃ or 60℃	Days at C3 at 60℃: 360 to 370 days					
6.17 Abusive over-discharge	C <sub>aod</sub> :0.90			C <sub>aoc</sub> :0.95		
6.18 Thermal runaway sensitivity	168h/2.45V: 33℃			168h/2.45V: 58℃		
6.19 Low temperature sensitivity	Cals:1.23-1.26			No damage		
6.20 Dimensional stability at elevated internal pressure and temperature	Pass					
6.21 Stability against mechanical abuse of units during installation	Pass			No leakage		

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