



Sacred Sun

Supplier statement of product range test results

IEC 60896-21&22

1)General product type information

Product manufacturer	Shandong Sacred Sun Power Sources Industry Co.,Ltd
Manufacturing site of tested product	No1,Shengyang Road, Qufu city, Shandong Province, China
Product name	Valve Regulate Lead-acid Battery
Product model range	SSP Series
Product comprising the above model range	SSP12-5/ SSP12-7/ SSP12-7.5/ SSP12-8/ SSP12-9/ SSP12-10/ SSP12-12/ SSP12-17/ SSP12-18
Product tested	SSP12-18

2)Product test performance information

Product safe operation in service	IEC 60896-21 test clause result				
6.1 Gas emission	Ge(maxi in float charge)= 0.0007(ml/ h • Ah) C ₃		Ge(over-charge)= 0.08(ml/ h • Ah)C ₃		
6.2 High current tolerance	Pass				
6.3 Short circuit and d.c. internal resistance	A-mOhm (See Specification Sheet in the website)				
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 Interconnector performance	50°C				
Product performance in service	IEC 60896-21 test clause result				
6.11 Discharge capacity	109% C ₁₀	108% C ₈	110% C ₃	111% C ₁	109% C _{0,25}
6.12 Charge retention during storage	92%~94%				
6.13 Float service with daily discharges	550 Cycles	C _{af} =46.9%		C _{ab} =53.3%	
6.14 Recharge behavior	24h: >94%		168h: >99%		
Product durability in service	IEC 60896-21 test clause result				
6.15 Float service life at 40°C	In progress				
6.16 Impact of stress temperature of 55°C or 60°C	Days at C3 at 60°C: 300 to 310days				
6.17 Abusive over-discharge	C _{aod} :0.92		C _{aoc} :0.94		
6.18 Thermal runaway sensitivity	168h/2.45V: 37°C		168h/2.60V: 45°C		
6.19 Low temperature sensitivity	Cals:1.02-1.04		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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 Document established as reply for RFI:

	Date	Visa
Established by	2007-3-18	<i>Mei Jingrong</i>
Approved by	2007-3-18	<i>Zhu Jiaowei</i>