

Certificate No. S 05-2714-SN162

Approval date 11/10/2016
Approved by GM Technical Standards
Report no. TAS 05-2714-SN162
Report date 12/05/2015

This certificate is issued to

Supplier Battery Specialties Australia (BSA)
240 Boundary Road, Braeside
VIC, Australia 3195

In respect of

Manufacturer Exide
Product description Sonnenschein A400 Batteries
Item identification Refer to Approved Item list for full details.

Application ARTC Network Wide
Relevant Standards SPS 02 Environmental Conditions
ESD-09-01 Signalling Power Systems

**Conditions of
Approval**

1. Only to be used with a battery charger suited for Valve Regulated Lead Acid (VRLA) batteries and for the size of battery and standing load.
2. Batteries only as per the approved list.
3. Batteries capacity to be calculated as per the level crossing design standard or power supply design standard
4. Not to be used in installations where solar is the only means of charging batteries.
5. Maintenance in accordance with TMP and maintenance service schedules.
6. No smoking in the proximity of the battery is allowed
7. Personnel Protective Equipment (PPE) must be worn whenever handling the batteries (gloves, glasses etc).
8. Batteries must be installed away from direct sunlight, in clean locations with ventilation.
9. Mechanical aids to be used when moving heavier battery cell packs.
10. Only water to be used to clean the battery surfaces.
11. Wire brushes must not be used to clean terminals, only soft non-metal brushes are allowed.
12. The supplier to ensure they continue to meet the requirements as detailed within ESG-00-15 – Quality Controlled Supplier.
13. Life expired batteries are only to be disposed of through a battery

recycling organisation.

ARTC reserves the right to conduct its own audit of the manufacture and supply of these components to AS 19011.

Any subsequent change to the design, materials or manufacturing process is not covered by this approval. The manufacturer should notify ARTC of any modification or changes in order to obtain a valid updated certificate.

Note/Comments NIL.

Issue date

Expiry date NA

Issued by

John Furness 
ARTC Manager Standards

Approved Item List

Catalogue No.	Cell Type	Amp-hour (Ah)	Conditions of Use
Sonnenschein A400 Battery Range			
NGA41205D5HSORA	A412/5.5 SR	5.5	Not to be used with solar charging.
NGA41208D5HSORA	A412/8.5 SR	8.5	
NGA4120012HSORA	A412/12 SR	12	
NGA4120020HSOBA	A412/20 G5	20	
NGA4120032HSOBA	A412/32 G6	32	
NGA4120032HSOFA	A412/32 F10	32	
NGA4120050HSOCA	A412/50A	50	
NGA4120050HSOFA	A412/50 F10	50	
NGA4120050HSOBA	A412/50 G6	50	
NGA4120065HSOFA	A412/65 F10	65	
NGA4120065HSOBA	A412/65 G6	65	
NGA4120085HSOFB	A412/85 F10	85	
NGA4120090HSOCA	A412/90 A	90	
NGA4120090HSOFA	A412/90 F10	90	
NGA4120100HSOCA	A412/100 A	100	
NGA4120100HSOFA	A412/100 F10	100	
NGA4120120HSOCA	A412/120 A	120	
NGA4120120HSOFA	A412/120 F10	120	
NGA4120180HSOCA	A412/180 A	180	
NGA4120180HSOFA	A412/180 F10	180	