



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 3655	23-Nov-2021	Number 3	Issue date 5-Mar-2024	30-Jun-2024

Page 1 of 2

Product designation

Zeal, SA Series, valve regulated sealed lead acid batteries

(Refer to the Schedule/enclosures for further specified details)

Agent/distributor

Sealed Performance Batteries Pty Ltd
1 Ant Road, YATALA, QLD, AUSTRALIA, 4207

Registrant

Sealed Performance Batteries Pty Ltd
1 Ant Road, YATALA, QLD, AUSTRALIA, 4207

Producer

NPP Power (Vietnam) Co., Ltd
Lot A22.3, Road C4, Thanh Thanh Cong Industrial Zone, An Hoa Ward, TRANG BANG DISTRICT, TAY NINH PROVINCE, VIETNAM, 510630

Conformance criteria and evaluation

The Zeal, SA Series, valve regulated sealed lead acid batteries has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Technical Specification TS001, Version 1.1, 17-Jul-2006, 'Lead-acid batteries for control and indicating equipment, AS 4428.5-1998, clause 2.6'.

Limitations/conditions of conformance

Limitations/conditions of conformance, where identified on this certificate, are derived from qualifications from evaluation(s) for conformity and/or other related technical documentation. All details with respect to design, assembly and installation instructions and restrictions should be checked against the producer's current technical manual/data sheets and the requirements of the Authority having Jurisdiction.

Specified limitations/conditions, determined from the evaluation for conformity, include the following.

- i. TS-001 does not establish the evidence required to demonstrate conformity of VRSLA batteries to electrical safety regulations that apply to CIE and related applications due to the requirements now specified in AS/NZS 62368.1:2018.

This certification is issued within the scope of CSIRO Verification Services – Rules governing ActivFire Scheme and is valid only for the product(s) as submitted for evaluation and verification of conformity, subject to the following conditions.

- Reference to details, limitations and requirements, where documented as a schedule/enclosure with this certificate.
- The Registrant is responsible for their attestation of conformity and ensuring that on-going production complies with the conformance criteria defined in this certificate.
- This certificate will not be valid if any changes or modifications are made to the product which have not been notified and validated by CSIRO Verification Services.
- This certificate is subject to periodical re-validation upon verification that all requirements, as determined by the conformity assessment body, continue to be satisfactorily met by the Registrant.
- This certificate may only be reproduced in its published form, without modification and inclusive of all schedules/enclosures.
- Any changes, errors or omissions, must be submitted in writing and if necessary or requested, substantiated with relevant evidence.
- Any representations, such as advertising or other marketing related activities or articles shall reflect the correct contents of this certificate and conform with all relevant trade practices and consumer protection legislation and regulations.
- Any terms or conditions of use as applicable to content and documentation as published or accessed through web sites administered by the CSIRO Verification Services.

Issued by

Kaj Loh
Executive Officer – ActivFire Scheme



Schedule to Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 3655	23-Nov-2021	Number 3	Issue date 5-Mar-2024	30-Jun-2024

Technical specification

The following details are a representative extract of the technical specification for the Zeal, SA Series, valve regulated sealed lead acid batteries and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Schedule of variant designations

The following is a schedule of validated variant designations of the certified/listed equipment.

Trade brand	Part number	Battery type	Nominal voltage	20 hr rated capacity	Terminal type	Length	Width	Total height (incl. terminal)	Approx. weight
Zeal	SA12V7	VRLA	12 V	7.0 Ah	F1	151 mm	65 mm	100 mm	2.1 kg
	SA12V12			12.0 Ah	T1/T2	151 mm	98 mm	100 mm	3.4 kg
	SA12V18			18.0 Ah	T3/T12	181 mm	77 mm	167 mm	5.20 kg
	SA12V20			20.0 Ah	T3/T12	181 mm	77 mm	167 mm	5.50 kg
	SA12V26			26.0 Ah	T4/T12	166 mm	125 mm	125 mm	7.90 kg
	SA12V45			45.0 Ah	T14	197 mm	165 mm	170 mm	13.10 kg
	SA12V55			58.0 Ah	T14	230 mm	138 mm	215 mm	17.30 kg
	SA21V75			80.0 Ah	T14	260 mm	168 mm	215 mm	23.50 kg
	SA12V100			106.0 Ah	T14	306 mm	169 mm	215 mm	27.00 kg

Schedule of properties/characteristics

The following schedule is an extract of physical and operational properties/characteristics of the certified/listed equipment.

Nominal operating temperature	25°C ±3°C
Operating temperature range	
Discharge	-15°C ~ 50°C
Charge	-10°C ~ 50°C
Storage	-20°C ~ 50°C
Float charging voltage(25°C)	13.50 to 13.80 V Temperature compensation: -18 mV/°C
Cyclic charging voltage(25°C)	14.50 to 15.00 V Temperature compensation: -30m V/°C
Component	
Positive plate	Lead dioxide
Negative plate	Lead
Container	ABS
Cover	ABS
Separator	AGM
Electrolyte	Sulfuric acid
Safety valve	Rubber
Terminal	Copper

Supplementary information

Schedule of relevant articles

The following schedule is an extract of articles significant and/or related as evidence of conformity.

Reference		Title / description	Date issued (or date validated)	Source
Ident. type	Ident.			
Report:	CSB0020/R1	Evaluation for conformity of the Zeal, SA Series, sealed lead acid batteries to the requirements of TS001, Version 1.1, 17-Jul-2006	18-Nov-2021	CSIRO Fire Systems Laboratory, AU
Specification / Technical Sheet	As per Title/ Description	Zeal Specification / Technical Sheet, SA12V7, VRLA 12V 7AH SA12V12, VRLA 12V 12AH SA12V18, VRLA 12V 18AH SA12V20, VRLA 12V 20AH SA12V26, VRLA 12V 26AH SA12V45, VRLA 12V 45AH SA12V55, VRLA 12V 55AH SA21V75, VRLA 12V 75AH SA12V100, VRLA 12V 100AH <small>(SA12V7.pdf SA12V12.pdf SA12V18.pdf SA12V20.pdf SA12V26.pdf SA12V45.pdf SA12V55.pdf SA12V75.pdf SA12V100.pdf)</small>	8-Dec-2020	Sealed Performance Batteries Pty Ltd, AU