

## NEW EQUIPMENT AND SYSTEM APPROVAL CERTIFICATE

**Certificate No.**      **NESA-S100**      **Version No: 1.0**

**Approval date**      23 May 2023

**Approved by**      Head of Engineering Standards

*This certificate is issued to*

**Supplier**      Battery Energy Power Solutions Pty Ltd  
96 Fairfield Street, Fairfield  
NSW, Australia 2165

*In respect of*

**Manufacturer**      Battery Energy

**Product description**      EnerGEL, SunGel and PowerLYTE Battery Range

**Item identification**      Refer to Approved Item List.

**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 approval lists
3. Maintenance in accordance with TMP and maintenance service schedule.
4. No smoking in the proximity of the battery is allowed.
5. Personnel Protective Equipment (PPE) must be worn whenever handling the batteries (gloves, glasses etc).
6. Batteries must be installed away from direct sunlight, in clean locations with ventilation.
7. Mechanical aids to be used when moving heavier battery cell packs.
8. Only water to be used to clean the battery surfaces.
9. Wire brushes must not be used to clean terminals, only soft non-metal brushes are allowed.
10. Life expired batteries are only to be disposed of through a battery recycling organisation.

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*A general condition of approval is that the supplier remains accredited to ISO 9001 specifically for these products and ARTC is advised on a 12 monthly basis that accreditation is current. 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**          None

**Issue date** 23/05/2023

**Expiry date**    N/A

**Issued by**

**ARTC Manager Signalling Standards**

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### Approved Item List – Battery range

| Battery Energy – EnerGEL range |               |             |                       |             |                                 |
|--------------------------------|---------------|-------------|-----------------------|-------------|---------------------------------|
| Battery Type                   | Capacity (Ah) | Voltage (V) | Dimensions (mm) LxWxH | Weight (kg) | Comments                        |
| 6EG100                         | 100           | 6           | 276x184x265           | 27.5        | NOT FOR USE with Solar chargers |
| 6EG130                         | 132           | 6           | 276x184x265           | 32          |                                 |
| 6EG160                         | 164           | 6           | 276x184x265           | 38          |                                 |
| 2EG200                         | 196           | 2           | 184x106x265           | 15          |                                 |
| 2EG225                         | 233           | 2           | 197x184x265           | 20          |                                 |
| 2EG290                         | 282           | 2           | 124x206x497           | 25          |                                 |
| 2EG300                         | 297           | 2           | 197x184x265           | 23          |                                 |
| 2EG350                         | 360           | 2           | 197x184x265           | 26.5        |                                 |
| 2EG360                         | 353           | 2           | 124x206x497           | 29.5        |                                 |
| 2EG400                         | 429           | 2           | 276x184x265           | 33          |                                 |
| 2EG495                         | 494           | 2           | 166x206x497           | 38          |                                 |
| 2EG500                         | 491           | 2           | 276x184x265           | 37          |                                 |
| 2EG550                         | 556           | 2           | 276x184x265           | 40          |                                 |
| 2EG700                         | 695           | 2           | 206x145x680           | 59          |                                 |
| 2EG800                         | 794           | 2           | 206x145x680           | 64          |                                 |
| 2EG900                         | 893           | 2           | 210x191x680           | 81          |                                 |

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|            |      |    |             |      |  |
|------------|------|----|-------------|------|--|
| 2EG1100    | 1092 | 2  | 210x191x680 | 86   |  |
| 2EG1300    | 1290 | 2  | 233x210x680 | 102  |  |
| 2EG1600    | 1588 | 2  | 275x210x680 | 124  |  |
| 12EG105FTG | 104  | 12 | 394x125x287 | 37.8 |  |
| 12EG160FTG | 158  | 12 | 558x125x125 | 58.8 |  |

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| Battery Energy – SunGEL range |               |             |                       |             |                                     |
|-------------------------------|---------------|-------------|-----------------------|-------------|-------------------------------------|
| Battery Type                  | Capacity (Ah) | Voltage (V) | Dimensions (mm) LxWxH | Weight (kg) | Comments                            |
| 6SG200                        | 210           | 6           | 276x184x265           | 32          | For Solar charger applications only |
| 2SG250/N                      | 262           | 2           | 184x109x265           | 13.5        |                                     |
| 2SG450                        | 472           | 2           | 197x184x265           | 23          |                                     |
| 2SG470                        | 478           | 2           | 206x124x497           | 25          |                                     |
| 2SG595                        | 597           | 2           | 206x124x497           | 29.5        |                                     |
| 2SG650                        | 682           | 2           | 276x184x265           | 33          |                                     |
| 2SG710                        | 716           | 2           | 206x145x497           | 34          |                                     |
| 2SG820                        | 836           | 2           | 206x166x497           | 38          |                                     |
| 2SG875                        | 874           | 2           | 206x145x680           | 45          |                                     |
| 2SG1000                       | 1048          | 2           | 206x145x680           | 54          |                                     |
| 2SG1200                       | 1223          | 2           | 210x191x680           | 64          |                                     |
| 2SG1400                       | 1398          | 2           | 210x191x680           | 69          |                                     |
| 2SG1750                       | 1747          | 2           | 233x210x680           | 87          |                                     |
| 2SG2000                       | 2097          | 2           | 275x210x680           | 104         |                                     |
| 12SG133FTG                    | 135           | 12          | 394x125x287           | 37.8        |                                     |
| 12SG200FTG                    | 205           | 12          | 558x125x317           | 58.5        |                                     |

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| Battery Energy – PowerLYTE range |               |             |                       |             |                                 |
|----------------------------------|---------------|-------------|-----------------------|-------------|---------------------------------|
| Battery Type                     | Capacity (Ah) | Voltage (V) | Dimensions (mm) LxWxH | Weight (kg) | Comments                        |
| PXL2V200                         | 200           | 2           | 110x172x365           | 16.0        | NOT FOR USE with Solar chargers |
| PXL2V300                         | 300           | 2           | 150x172x365           | 22.6        |                                 |
| PXL2V400                         | 400           | 2           | 211x175x367           | 32.5        |                                 |
| PXL2V500                         | 500           | 2           | 172x241x365           | 37.2        |                                 |
| PXL2V600                         | 600           | 2           | 301x175x365           | 45.0        |                                 |
| PXL2V800                         | 800           | 2           | 411x175x365           | 61.5        |                                 |
| PXL2V1000                        | 1000          | 2           | 474x175x366           | 73.5        |                                 |
| PXL2V2000                        | 2000          | 2           | 490x349x382           | 146         |                                 |
| PXL2V3000                        | 3000          | 2           | 711x353x382           | 220         |                                 |
| PL2V850T                         | 850           | 2           | 235x179x550           | 55.8        |                                 |
| PL2V1000T                        | 1000          | 2           | 235x179x550           | 61.7        |                                 |
| PLFT12-55                        | 49            | 12          | 278x106x223           | 17.5        |                                 |
| PLFT12-80                        | 73            | 12          | 562x114x188           | 27.2        |                                 |
| PLFT12-100                       | 95            | 12          | 508x111x227           | 33.0        |                                 |
| PLFT12-110T                      | 105           | 12          | 394x110x290           | 34.2        |                                 |
| PLFT12-125                       | 117           | 12          | 550x110x240           | 37.5        |                                 |

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|             |     |    |              |      |
|-------------|-----|----|--------------|------|
| PLFT12-160  | 150 | 12 | 550x110x287  | 47.2 |
| PLFT12-175  | 160 | 12 | 558x125x317  | 54.0 |
| PLFT12-200C | 204 | 12 | 560x125x317  | 58.5 |
| PL12-16     | 16  | 12 | 200x77.5x134 | 5.5  |
| PL12-40     | 40  | 12 | 250x97x196   | 13.4 |
| PL12-60     | 60  | 12 | 222x121x250  | 20.0 |
| PL12-230    | 214 | 12 | 522x242x222  | 64.5 |
| PL12-240    | 223 | 12 | 520x269x208  | 70.2 |