

NEW EQUIPMENT AND SYSTEM APPROVAL CERTIFICATE

Certificate No. NESA-S059 Version No. 1.1

Approval date 14/12/2020

Approved by GM Technical Standards

This certificate is issued to

Supplier Victron Energy

In respect of

Manufacturer Victron Energy

Product description Victron Energy SmartSolar Charge Controller and Smart Charger

Item identification See Approved Item List

Application ARTC Network wide

Relevant Standards ESD-09-01 – Signalling Power System

SPS 02 - Environmental Condition

SPS 22 - Power Supply Units for Signalling Equipment – General

Requirement

Conditions of Approval

- a) For use in accordance with ARTC signalling standards and applicable Australian Standards.
- b) Project to ensure that solar power system solution has been agreed with local signal engineers and business unit.
- c) Project to ensure that reliability, availability and maintainability of the proposed application is similar or better than the existing power supply arrangement.
- d) Designer to ensure that solar power design and calculation are as per Australian standards.
- e) Designer should minimise the single point of failure in the design and ensure no new risks are being introduced which may result in train delays or safety of train operations.
- f) Installation, commissioning and servicing shall be carried out as per manufacturer recommendation defined in the technical manual and applicable ARTC and Australian standard.
- g) Project to arrange the training for ARTC signalling maintenance staff.
- h) SmartSolar Charge Controller installed within type B4 equipment housing as defined within SPS02 to have additional shading structures provided to limit solar heating affects.
- Victron Blue Smart Charger installed within type B2, B3 and B4 equipment housing as defined within SPS02 to have additional shading structures provided to limit solar heating affects.
- j) The SmartSolar Charge Controller MPPT must be mounted vertically to ensure passive cooling is affective.



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- k) Equipment must be housed in suitable enclosures to ensure protection from liquids (rain).
- I) Only items listed in approved items list shall be utilised.

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 certificate.

Note/Comments

NIL

Issue date

14/12/2020

Issued by

Mayank Jain

Manager Signalling Standards ARTC

List of Items
Victron SmartSolar Charge Controller 150/100 VE.Can
Victron SmartSolar Charge Controller MPPT 150/45
Victron SmartSolar Charge Controller MPPT 150/60
Victron SmartSolar Charge Controller MPPT 150/70
Victron SmartSolar Charge Controller MPPT 150/85
Victron SmartSolar Charge Controller MPPT 150/100
Victron Blue Smart IP22 Charger