

Certificate No. NESA-S062

Version No. 1.0

Approval date 14/12/2020

Approved by GM Technical Standards

This certificate is issued to

Supplier Effective Electrical

In respect of

Manufacturer LG

Product description LG Neon 2 Solar Panel 350/355/360N1C-N5

Item identification LG Neon 2 Solar Panel 350/355/360N1C-N5

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
AS/NZS 5033:2014 Installation and safety requirements for photovoltaic (PV) arrays

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 standard.
- g. Project to arrange the training for ARTC signalling maintenance staff.
- h. Only items listed as approved items 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.



NEW EQUIPMENT AND SYSTEM APPROVAL CERTIFICATE

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