

<b>Certificate No.</b>	<b>NESA-S088</b>	<b>Version No. 1.2</b>
<b>Approval date</b>	14 November 2023	
<b>Approved by</b>	Head of Engineering Standard	
<i>This certificate is issued to</i>		
<b>Supplier</b>	Eltek Australia Unit 18/39 Herbert St. St. Leonards, NSW, 2065	
<i>In respect of</i>		
<b>Manufacturer</b>	Eltek, Drammen, Norway	
<b>Product description</b>	Eltek Power Supply and Solar Power Equipment	
<b>Item identification</b>	See approved item list	
<b>Application</b>	ARTC Network wide	
<b>Relevant Standards</b>	ESS-09-02 – Signalling Power System ESS-09-01 Solar Power Supply Systems SPS 02 – Environmental Conditions	
<b>Conditions of Approval</b>	<ul style="list-style-type: none"> <li>• Project to ensure that solar power system solution has been agreed with corridor signal engineers and business unit.</li> <li>• Project to ensure that reliability, availability, and maintainability of the proposed application is similar or better than the existing power supply arrangement.</li> <li>• Project needs to confirm from the supplier that spares will be provided for the design life of these parts.</li> <li>• Project to arrange the training for ARTC signalling maintenance staff.</li> <li>• Designer to ensure that solar power design and calculations are as per Australian standards.</li> <li>• 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 operation.</li> <li>• Design, installation, commissioning, and servicing shall be carried out as per manufacturer documents and applicable ARTC and Australian standards.</li> <li>• Product should be installed in the signalling enclosure which has provision of reducing the internal temperature of enclosure and minimise the ingress of dust.</li> <li>• There are no user spares within this equipment – units are to be removed upon failure and returned to Eltek for repair or replacement.</li> </ul>	

## NEW EQUIPMENT AND SYSTEM APPROVAL CERTIFICATE

- Derating of equipment needs to be considered as part of design works as per manufacturer's recommendations.
- Manufacturer/Supplier of the equipment is required to notify ARTC for any defect reported with this product following the approval.
- Manufacturer/Supplier of the equipment is required to update ARTC with any subsequent changes to the product and provide updated technical documentation at standards@artc.com.au

*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**

14/11/2023

**Issued by**

**Manager Signalling Standards**

**Approved Item list:**

Part Number	Description
241115.65	Eltek FP2 HE 1500W 48V Solar Regulator
241119.650	Flatpack2 48/3200 HE Solar Charger Module
241115.600	Flatpack2 DC/DC Converter 1350W 18-75VDC/24VDC
CTOS0201.001	Flatpack2 1U Integrated DC Power supply system
241115.105	Flatpack2 48V/2000W HE Rectifiers
241119.105	Flatpack2 48V/3000W HE Rectifiers
241123.100	Rectiverter 230/1500 48/1200
241123.130	Rectiverter 110v-1200W
242100.300	Battery Monitor
242100.306	Eltek I/O Monitor Type 3
242100.510	Smartpack2 Touch
242100.603	CAN Nodes – Controller + I/O
242100.604	CAN Nodes – Relay x4 Extn Board
242100.605	CAN Nodes – Relay x8 Extn Board
CTO20405.1230	Flatpack2 5U Integrated DC Power supply system
CTO20407S.4019	FP2 8KW+6KW Powercore w/SPD complete w/4PV Solar slots shelf PN 3790E305815 SPD
CTO21207.4048	Flatpack2 7U Integrated DC Power supply system