

NEW EQUIPMENT AND SYSTEM LEGACY APPROVAL CERTIFICATE

Certificate No.	S 05-09-05-089	Version No. 1.2
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Approval date 21 October 2024

Approved by Manager Engineering Services

This certificate is issued to

Supplier Exelectronics

In respect of

Manufacturer Enatel
PO BOX 22-333,
Christchurch, New Zealand

Product description ENATEL RW300-RW700 SERIES WALL MOUNT RECTIFIER
POWER SUPPLY & BATTERY CHARGER

Item identification See Approved Item List

Application Power Supply & Battery Charger

Relevant Standards SPS 02 - 'Environmental Conditions'
SPS 22 - 'Power Supply Units for Signalling Equipment - General
Requirements'
SPS 34 - 'Lightning/Surge Protection - Inductor/Varistor Panel'
SPS 37 - 'Lightning/Surge Protection - Power Inductors'
SDS 25 - 'Signalling Circuit Design Standards'

**Conditions of
Approval**

General Conditions of Legacy Approval:

1. May continue to be used in current installations.
2. Can be replaced with the same item of equipment during maintenance or renewal activities.
3. Shall not be used in new installations.

Supplier:

1. For installation only in equipment housings having active or passive mechanical ventilation and/or climate control designed to keep the ambient temperature below manufacturer's stated maxima.
2. Any input or output connections to circuitry which runs external to the equipment housing must be protected by adequate surge filters including series inductors (as per ARTC specification SPS 37) and triggered spark gaps from line to earth.
3. May only be used for charging batteries supplying road level crossing protection where all road warning lamp units are of the LED variety and battery voltage is restricted to 12V (sic. boom barrier mechanism spec.).
4. Signalling bus loads must be supplied via the output terminals designated 'Load' on the side of the rectifier unit.
5. Battery charging loads must be supplied via the output terminals designated 'Battery' on the side of the rectifier unit.

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6. Plug connectors for mains input and battery output terminations shall utilise screw terminal technology suitable for conductors up to 2.5mm².
7. For use in accordance with ARTC specification SDS 25 and standard typical circuits only modified as required to ensure surge protection (see ii above) and to take advantage of the dual channel capabilities where required.
8. Only components from the accompanying list may be utilised.
9. For use only in locations with a stable primary AC power supply source. The installation should be protected by PSU conditioners or UPS in territories where SWER or a similarly unstable power source is 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 2 yearly 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 shall notify ARTC of any modification or changes in order to obtain a valid certificate.

Issue date

21/10/2024

Expiry date N/A

Issued by

ARTC Manager Standards

Approved Item List

Model No.	ARTC (& SRA) Identity	Description	Conditions of Use
RW312U-20	DC802 (Store 74)	12V, 20A	+ Maximum Voltage 15V
RW348-U-20	DC805 (Store 96)	S0V, 6A	Maximum Voltage 60V
RW512U-20	DC803 (Store 74 - 30 A)	12V, 35A	+ Maximum Voltage 15V
RW624U-20	DC804 (Store 86)	24V, 22A	Maximum Voltage 30V (1.5V per cell, 20 cell NiCad battery)
SM11	N/A	Supervisory Monitor Panel	An individual panel may only monitor rectifiers feeding a single battery or busbar.
ACA-TC2U	N/A	Temperature Compensation cable 2m	
ACA-TC7U	N/A	Temperature Compensation cable 7m	
ACS-S150	N/A	Current Sensor shunt assembly	

+ Suitable only for batteries of up to 10 NiCad (1.2V) cells, not suitable for chargers at Level Crossings where extra cells are used.

* Nominal voltage 48V, adjustment required to match 'S0V busbar' and installed battery voltage.