

NEW EQUIPMENT AND SYSTEM APPROVAL CERTIFICATE

Certificate No. NESA-S092

Version No 1.0

Approval date 18/11/2022

Approved by A/GM Technical Standards

This certificate is issued to

Supplier Alpha Power Systems - UPS
Unit 18/30 Heathcote Road Moorebank NSW 2170

In respect of

Manufacturer Alpha Power Systems

Product description CFRTU61XX and HTU UPS

Item identification Refer to Approved Item List.

Application ARTC Network Wide

Relevant Standards SPS 02 Environmental Conditions
SPS 03 Signalling Power Systems
SPS 22 Power Supply Units for Signalling Equipment – General Requirements
ESD-09-01 Signalling Power Systems

Conditions of Approval

1. Alpha Power Systems to inform ARTC of any changes that may affect their acceptance of all requirements stipulated within ESG-00-15 'Quality Controlled Supplier' standard.
2. UPS is to be installed in a suitable enclosure to maintain the temperature within the tolerable limits (up to 60°C at full load).
3. Derating of 1.5% for every degree above 60 degree should be applied in design calculations.
4. Designer shall consider the transfer time of UPS to determine the suitability for the required application.
5. Only items in the approved list may be used.
6. Only type approved VRLA batteries shall be used with the UPS.
7. The battery temp sensor, (CFRTU61xx only) should be securely mounted between battery cells where possible.
8. There are no field serviceable components within the unit, any failed units shall be replaced.
9. Gloves must be worn when lifting or moving the UPS to protect

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hands.

10. Due to the weight of the equipment precautions shall be taken in manual handling when installing, removing or maintaining the equipment.
11. The MATS002R must only be bolted by the front mounting holes to any 19" racking.

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

NIL.

Issue date 18/11/2022

Expiry date N/A

Issued by

ARTC Manager Signalling Standards

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Approved Item List – CFRTUXX UPS SERIES

Part Number	Description	Capacity (kVA)	Battery Bank (V DC)	Weight (kgs)
CFRTU – 110VAC System – R48				
CFRTU6101-R48-110	CFRTU6101, 1kVA full online RM 48VDC 110VAC with Isolation Transformer + SNMP	1	48	39
CFRTU6102-R48-110	CFRTU6102, 2kVA full online RM 48VDC 110VAC with Isolation Transformer + SNMP	2	48	46
CFRTU6103-R48-110	CFRTU6103, 3kVA full online RM 48VDC 110VAC with Isolation Transformer + SNMP	3	48	53
CFRTU6105-R48-110	CFRTU6105, 5kVA full online RM 48VDC 110VAC with Isolation Transformer + SNMP	5	48	93
CFRTU – 110VAC System – R96				
CFRTU6101-R96-110	CFRTU6101, 1kVA full online RM 96VDC 110VAC with Isolation Transformer + SNMP	1	96	33
CFRTU6102-R96-110	CFRTU6102, 2kVA full online RM 96VDC 110VAC with Isolation Transformer + SNMP	2	96	36
CFRTU6103-R96-110	CFRTU6103, 3kVA full online RM 96VDC 110VAC with Isolation Transformer + SNMP	3	96	40
CFRTU6105-R96-110	CFRTU6105, 5kVA full online RM 96VDC 110VAC with Isolation Transformer + SNMP	5	96	52
CFRTU – 120VAC System – R48				
CFRTU6101-R48-120	CFRTU6101, 1kVA full online RM 48VDC 120VAC with Isolation Transformer + SNMP	1	48	39
CFRTU6102-R48-120	CFRTU6102, 2kVA full online RM 48VDC 120VAC with Isolation Transformer + SNMP	2	48	46
CFRTU6103-R48-120	CFRTU6103, 3kVA full online RM 48VDC 120VAC with Isolation Transformer + SNMP	3	48	53
CFRTU6105-R48-120	CFRTU6105, 5kVA full online RM 48VDC 120VAC with Isolation Transformer + SNMP	5	48	93
CFRTU – 120VAC System – R96				
CFRTU6101-R96-120	CFRTU6101, 1kVA full online RM 96VDC 120VAC with Isolation Transformer + SNMP	1	96	33
CFRTU6102-R96-120	CFRTU6102, 2kVA full online RM 96VDC 120VAC with Isolation Transformer + SNMP	2	96	36
CFRTU6103-R96-120	CFRTU6103, 3kVA full online RM 96VDC 120VAC with Isolation Transformer + SNMP	3	96	40
CFRTU6105-R96-120	CFRTU6105, 5kVA full online RM 96VDC 120VAC with Isolation Transformer + SNMP	5	96	52

**NEW EQUIPMENT AND SYSTEM
APPROVAL CERTIFICATE****Approved Item List - HTU (High Temperature Unit) UPS Series**

Part Number	Description
HTU 1K	1kva full offline UPS
HTU 1.5K	1.5kva full offline UPS
HTU 2K	2kva full offline UPS
HTU 3K	3kva full offline UPS
HTU 4K	4kva full offline UPS
HTU 5K	5kva full offline UPS
HTU 6K	6kva full offline UPS