

MASTER CONTRACT: 301203

REPORT: 80041629

PROJECT: 80041629

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PRODUCTS

CLASS 3862-66 – INFORMATION TECHNOLOGY EQUIPMENT - (CSA 62368-1)

CLASS 3862-96 – INFORMATION TECHNOLOGY EQUIPMENT - (ANSI/UL 62368-1) - Certified to US Standards

DCP- Digital Communication Platform, models XC-XCM10-XX0-F-X0-XXX, Class II

Where:

XC-XCM10-XX0-F-X0-XXX

Brand:	Type of device:	Device & Sims:	Area code:	Local External Comms:	Customer Specific:
A - Avire	3 - 3G GSM & Phone	6 - 1 Sim & RS232	1 - EMEA	2 - RS232	000 - Not Specific
M - Memco	4 - 4G GSM & Phone	7 - 1 Sim & RS485	2 - APAC	4 - RS485	
K - Microkey		8 - 2 Sim & RS232	3 - North America (Sprint)		
		9 - 2 Sim & RS485	4 - North America (AT&T)		
			5 - North America (Verizon)		
			6 - North America (T-Mobile)		

Blue characters --> Not change

Red characters --> They change according to the description

Ratings: 100 – 240 Vac; 50 / 60 Hz; 3.5 W

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Conditions of Acceptability:

- Instructions and markings related to safety shall be in a language acceptable where the equipment is to be used.
- Mains supply cords shall comply with the relevant national standard of the country in which the EUT is sold.
- The equipment was evaluated for use in a maximum ambient temperature of 65°C.

APPLICABLE REQUIREMENTS

CAN/CSA C22.2 No 62368-1-14	Audio/video, information and communication technology equipment — Part 1: Safety requirements
ANSI/UL 62368-1-2014	Audio/video, information and communication technology equipment – Part 1: Safety requirements



MARKINGS

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

- [a] Submitter's identification (company name and/or file number and/or registered tradename)
- [b] Model designation
- [c] Electrical input rating in volts, hertz, amperes and/or watts
- [d] Nature of the supply / output voltage: a.c. (or the IEC 60417-5032 symbol “~”) or d.c. (or the IEC 60417-5031 symbol “—”)
- [e] Date of manufacture, serial number or date code*
- [f] Class II (double-insulated) Equipment is marked with the IEC 60417- 5172 symbol “” if no functional earth connection provided, or the IEC 60417-6092 symbol “” if provided with functional earth connection.

*Note: Period of manufacture and factory identification may be coded within a serial number, provided that the manufacturer can trace the information upon request from CSA Group.

Nameplate adhesive label material approval information:

Manufacturer: UPM Raflatac Oy

Type: PET white TC 50 – RP37S

UL File No. MH26760

ALTERATIONS

None.

FACTORY TESTS

WARNING: The factory test(s) specified may present a hazard of injury to personnel and/or property and should only be performed by persons knowledgeable of such hazards and under conditions designed to minimize the possibility of injury.

Production-Line Dielectric Voltage-Withstand Test:

(a) Only ac values are specified. As an alternative, the equivalent dc voltage (1.414 times the ac voltage) may be used.

(b) The factory test may be done at existing room temperature.

For Double Insulated Units (Class II) Up to 130V Having Exposed Metal Parts: The equipment at the conclusion of manufacture, before shipment, shall withstand for one sec, without breakdown, the application of 2000V ac between live parts and exposed non-current-carrying metal parts.

For Double Insulated Units (Class II) Above 130V and Up to 250V and Having Exposed Metal Parts: The equipment at the conclusion of manufacture, before shipment, shall withstand for one sec, without breakdown, the application of 3000V ac between live parts and exposed non-current carrying metal parts.

For Double Insulated Units (Class II) Up to 130V Not Having Exposed Metal Parts: The equipment at the conclusion of manufacture, before shipment, shall withstand for one sec, without breakdown, the application of 2000V ac between live parts and metal foil in contact with plastic enclosure.

For Double Insulated Units (Class II) Above 130V and Up to 250V and Not Having Exposed Metal Parts: The equipment at the conclusion of manufacture, before shipment, shall withstand for one sec, without breakdown, the application of 3000V ac between live parts and metal foil in contact with plastic enclosure.

SPECIAL INSTRUCTIONS FOR FIELD SERVICES

1. Component descriptions marked with either the "(INT)" or "(INT*)" identifiers may be substituted with other components providing the requirements specified under the notes in the "Description" are complied with.

COMPONENT SPECIAL PICKUP

1. Component descriptions marked with the identifier "(CT)" are subject to annual pickup and Conformity Testing.

DESCRIPTION

Notes:

1. Component Substitution

- a) Critical components (those identified by mfr name, cat no), which are NOT identified with either "INT" or "INT*" are not eligible for substitution without evaluation and report updating
- b) The term "INT" means a "Certified" and/or "Listed" (or a "Recognized" and/or "Accepted") component may be replaced by one "Certified" and/or "Listed" by another certification organization accredited by the appropriate accreditation body or scheme requirements to the correct standard, for the same application; providing the applicable country identifiers are included and requirements in item "d" below are complied with.
- c) The Term "(INT*)" means a "Recognized" and/or "Accepted" component may be replaced by a component that is CSA Certified. The applicable country identifiers shall be included, the requirements in item "d" below as well as any "conditions of suitability" for the component (as recorded in this descriptive report) shall be complied with;
- d) Components which have been substituted, must be of an equivalent rating, configuration (size, orientation, mounting) and the applicable minimum creepage and clearance distances are to be maintained from live parts to bonded metal parts and secondary parts.
- e) Substitution of a "Certified" and/or "Listed" component with a component that is "Recognized" or "Accepted" is not permitted without evaluation and report updating.
- f) Substitution of a "Recognized" and/or "Accepted" component by one that is not CSA Certified is not permitted without a proper evaluation as well as a report update because the Conditions of Acceptance of the original component may be different than the Conditions of Acceptance of the substitute component.

The equipment under test is a digital communication platform which provides an information gateway between all compatible connected devices in the hoistway and an online monitoring platform.

Weight: 0.60 kg

Operating temperature. -10°C to +65°C.

TEST ITEM PARTICULARS:	
Classification of use by..... :	<input checked="" type="checkbox"/> Ordinary person <input checked="" type="checkbox"/> Instructed person <input checked="" type="checkbox"/> Skilled person <input type="checkbox"/> Children likely to be present
Supply Connection..... :	<input checked="" type="checkbox"/> AC Mains <input type="checkbox"/> DC Mains <input type="checkbox"/> External Circuit - not Mains connected - <input type="checkbox"/> ES1 <input type="checkbox"/> ES2 <input checked="" type="checkbox"/> ES3
Supply % Tolerance :	<input checked="" type="checkbox"/> +10%/-10% <input type="checkbox"/> +20%/-15% <input type="checkbox"/> +____%/ -____% <input type="checkbox"/> None
Supply Connection – Type :	<input checked="" type="checkbox"/> pluggable equipment type A - <input type="checkbox"/> non-detachable supply cord <input type="checkbox"/> appliance coupler <input type="checkbox"/> direct plug-in <input checked="" type="checkbox"/> mating connector <input type="checkbox"/> pluggable equipment type B - <input type="checkbox"/> non-detachable supply cord <input type="checkbox"/> appliance coupler <input type="checkbox"/> permanent connection <input type="checkbox"/> mating connector <input type="checkbox"/> other:_____
Considered current rating of protective device as part of building or equipment installation..... :	16 A / 20 A; Installation location: <input checked="" type="checkbox"/> building; <input type="checkbox"/> equipment
Equipment mobility :	<input type="checkbox"/> movable <input type="checkbox"/> hand-held <input type="checkbox"/> transportable <input checked="" type="checkbox"/> stationary <input type="checkbox"/> for building-in <input type="checkbox"/> direct plug-in <input type="checkbox"/> rack-mounting <input type="checkbox"/> wall-mounted
Over voltage category (OVC) :	<input type="checkbox"/> OVC I <input checked="" type="checkbox"/> OVC II <input type="checkbox"/> OVC III <input type="checkbox"/> OVC IV <input type="checkbox"/> other: _____
Class of equipment :	<input type="checkbox"/> Class I <input checked="" type="checkbox"/> Class II <input type="checkbox"/> Class III
Access location :	<input type="checkbox"/> restricted access location <input checked="" type="checkbox"/> N/A
Pollution degree (PD) :	<input type="checkbox"/> PD 1 <input checked="" type="checkbox"/> PD 2 <input type="checkbox"/> PD 3
Manufacturer’s specified maxium operating ambient:	65°C

IP protection class	<input checked="" type="checkbox"/> IPX0 <input type="checkbox"/> IP__
Power Systems	<input checked="" type="checkbox"/> TN <input checked="" type="checkbox"/> TT <input type="checkbox"/> IT - ____ V _{L-L}
Altitude during operation (m)	<input checked="" type="checkbox"/> 2000 m or less <input type="checkbox"/> ____ m
Altitude of test laboratory (m)	<input checked="" type="checkbox"/> 2000 m or less <input type="checkbox"/> ____ m
Mass of equipment (kg)	<input checked="" type="checkbox"/> 0.60 kg

List of critical components					
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹
Enclosure -INT-	Vamp-Tech Spa	VAMPSAB 0023	Min. 2.3 mm UL94 5VA	UL 94 IEC 60695-10	cURus E140692
PCB -INT-	Zubelzu SL	2	FR-4 1.65 mm UL94 V-0 130°C	UL 796 UL 94	UR E113568
Battery	Shenzhen EPT Battery Co. Ltd.	6679-00-03	12 V 800 mAh 80°C	IEC 62133-1	TÜV Rheinland CB Report 50348042 001
PSU (U10)	Recom Power GmbH	RAC10- 15SK/277/X18 V	100 – 277 Vac 50 / 60 Hz, 0.25 A 18 Vdc / 0.56 A 80°C	IEC 62368-1 UL 62368-1 CSA 62368-1	UL Report 16BCS10045 11-A2 cURus E224736
PSU -Alternative-	Mornsun Guangzhou Science & Technology Co. Ltd.	LDE10-20B18	100 – 240 Vac 50 / 60 Hz, 0.23 A 18 Vdc / 0.56 A 70°C	IEC 62368-1 UL 62368-1 CSA 62368-1	UL Report ES190325936 S-1 cURus E235235
Input connector (J6)	Anytek Technology Corp.	OQ Series (OQ035450000 G)	300 V 20 A 2.5 kV 115°C	UL 1059 CSA C22.2 158-10	cURus E202113 CSA 115538
Choke (L7)	TDK Electronics AG	B82730/G	300 Vac / 2.6 A	UL 1283	UR 70122
Capacitor (C74)	Xiamen Faratronic Co. Ltd.	MKP62	305 V 110°C	UL 60384-14	UR E186600
Marking label -INT-	UPM Raflatac Oy	PET white TC 50 – RP37S	80°C	UL 969	UR MH26760

TEST HISTORY

The subject equipment was found to be in compliance with the following tests during the evaluation of the reference report edition(s).

Note:

- 1) The following clauses reference CSA standard CAN/CSA-C22.2 No. 62368-1:14 and UL 62368-1 2nd Ed.
- 2) The complete test results are located on Documentum (the Engineering File at the CSA Strasskirchen Office).

Edition 1: Project 80041629

Origin certification of DCP- Digital Communication Platform, models XC-XCM10-XX0-F-X0-XXX according to CAN/CSA C22.2 No. 62368-1-14 and ANSI/UL 62368-1-14

The following tests were performed:

- 5.2 Classification of electrical energy sources
- 5.4.2 Minimum clearances / creepage distances
- 5.4.8 Humidity conditioning
- 5.4.9 Electric strength test
- 5.5.2 Discharge of capacitors
- 5.7 Prospective touch voltage, touch current and protective conductor current
- 6.2.2 Classification of power sources
- 6.3.2 Temperature measurement
- 8.2 Mechanical energy source classifications
- 8.7.2 Wall / Ceiling mount
- 9.2 Classification of thermal energy sources
- 10.2 Radiation energy source classification
- B.2.5 Input test
- B.3 Abnormal operating condition tests
- B.4 Fault condition tests
- F.3.10 Test for performance of markings
- T.5 Steady force tests
- T.6 Impact test
- T.8 Stress relief test

Construction Review:

Construction review performed with satisfactory results.

---End of Report---