



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.:	<b>IECEx TSA 24.0002X</b>	Page 1 of 4	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 0	
Date of Issue:	2024-05-14		
Applicant:	<b>Nautitech Mining Systems Pty Limited</b> Unit 3/9 Packard Ave Castle Hill NSW 2154 <b>Australia</b>		
Equipment:	<b>Power Supply Module (PSM)</b>		
Optional accessory:			
Type of Protection:	<b>Encapsulation "mb", Increased Safety "eb" &amp; Intrinsic Safety "ia"</b>		
Marking:	Ex eb mb [ia] I Mb (Um available) Ex ia I Ma (Um withdrawn)		

Approved for issue on behalf of the IECEx  
Certification Body:

**Ujen Singh**

Position:

**Quality & Certification Manager**

Signature:  
(for printed version)

Date:  
(for printed version)

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Londonderry NSW 2753  
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Manufacturer: **Nautitech Mining Systems Pty Limited**  
Unit 3/9 Packard Ave  
Castle Hill NSW 2154  
**Australia**

Manufacturing locations: **Nautitech Mining Systems Pty Limited**  
Unit 3/9 Packard Ave  
Castle Hill NSW 2154  
**Australia**

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

## STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

[IEC 60079-18:2017](#) Explosive atmospheres - Part 18: Protection by encapsulation "m"  
Edition:4.1

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

## TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[AU/TSA/ExTR24.0003/00](#)

Quality Assessment Report:

[AU/MSQ/QAR21.0001/01](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Power Supply Module (PSM) is a purpose-built apparatus that may be present in a configurable instrumented system built to achieve a safety and/or a control function.

The complete instrumented system may use several modules, where the modules are mechanically and electrically connected to each other using header-socket connections on the compatible sides that mate with each other, and the modules are fastened together to form one assembly.

The Power Supply Module (PSM) is a 120 W power supply, it is usually powered from an alternator or another  $U_m = 90$  V limited power source, provides voltage and current limitation, and delivers power on a '4 Pin Power Rail' through to all the modules, thus forming a backplane-based connection system. This '4 Pin Power Rail' has two rated output variants as 12 Vdc or 17 Vdc. It is adequately segregated between its positive and negative and from all other circuits. This connector is further protected by Ex e type of protection between the modules and end plates.

The backplane also contains four configurable Ex ia Power Buses (BUS\_A through to BUS\_D) delivered by the PSM, UPS or compatible module. The Ex ia Buses (have an  $U_o = 8.95$  V and  $I_o = 2.4$  A), are suitably segregated from one another and galvanically isolated from the alternator supplied circuit and other output circuits to prevent combinations of circuits and energy.

When Zone 0 conditions are not present, the  $U_m = 90$  V input may be applied to power the PSM module to provide power to the backplane.

When Zone 0 condition are present, the  $U_m$  input shall be isolated and the PSM module may then derive power from a suitably certified Zone 0 compatible module.

The power supply module also supplies power to the display, keyboard, and Bluetooth circuits. There are also 24 intrinsically safe, adequately segregated data lines carried through the '24 Pin Signal Rail' to all the modules completing the communications on the backplane.

## SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The PSM must be installed with compatible modules on either side in a complete system or with the metallic end plates to its sides.
2. When Zone 0 conditions are not present, the  $U_m$  input may be applied to power the PSM module to provide backplane power. When Zone 0 condition are present, the  $U_m$  input must not be supplied to the PSM and the PSM module may derive power from only a suitably certified Zone 0 compatible module.
3. The equipment shall be withdrawn from service should any damage appear on the display fascia of the equipment that may impair the IP rating of the equipment.
4. It is conditions of safe use that the PSM shall only be connected to a power source whose output voltage does not exceed  $U_m = 90$  VDC.



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**Additional information:  
Manufacturer Routine Tests:**

1. Infallible transformer T1 shall be routine tested in accordance with IEC 60079.11:2011 Clause 11.2 as follows:
  - a. 1,500 Vrms between Input, Aux winding to Output winding for 60 seconds.
  - b. 1,500 Vrms between Input winding to Aux winding for 60 seconds.
  - c. 500 Vrms between Input, Output, Aux windings to the core for 60 seconds.Alternatively, the test may be carried out at 1.2 times the test voltage , but with reduced duration of at least 1 second.
2. Each piece of 'm' equipment shall be subjected to a visual inspection as required by IEC 60079-18 clause 9.1.
3. A dielectric strength test shall be performed on each complete assembly as follows:

For Type 12004 PSL, 12006 PSE and 12005 PSR:

  - a. 1,500 Vrms between input cable, 4 pins power rail connector to 24 pins, 9 pins connectors for 60 seconds.
  - b. 500 Vrms between input cable, 4 pins, 9 pins, 24 pins connector to enclosure, cable shield for 60 seconds.

For Type 12007 PSB:

  - a. 500 Vrms between input cable, 4 pins connector to enclosure, cable shield for 60 seconds.Alternatively, the test may be carried out at 1.2 times the test voltage , but with reduced duration of at least 100 millisecond.

**Annex:**

[Annexe\\_IECEx TSA 24.0002X-0.pdf](#)

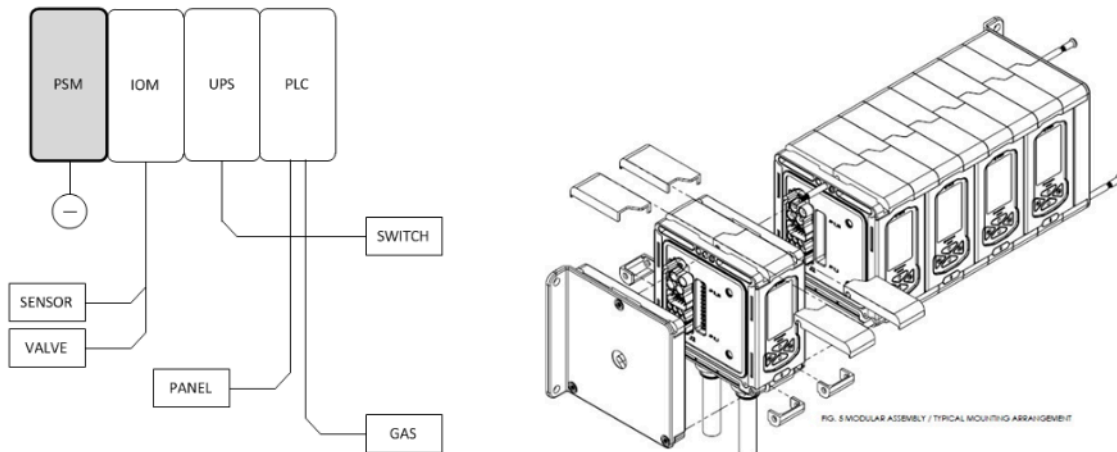


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## Equipment description continue:

The PSM Module contains several internal printed circuit boards interconnected to each other. It is totally encapsulated except for the keypad switches and LCD display (when fitted) on the front (user available) surface of the module.



The assembly of the PSM module within a typically installed system is shown hereabove.

## The Base design 12001 forms the following types:

### PSM Local Control (PSL), Type 12004

This is also referred to as CX004-xxx. It contains the full complement of circuits including alternator input, power input regulation, 8.95 V bus power supply, power supplies for the data circuits as well as potential to start up autonomously (control is local) as soon as mains power is available.

### PSM Remote Control (PSR), Type 12005

This is also referred to as CX005-xxx. It excludes the alternator input, regulation circuits and power supplies for data circuits. The intrinsically safe power is derived from the Backplane 4 Pin Power Rail, and may be configured to be controlled remotely using commands sent from a compatible module (e.g. PLC or IOM)

### PSM Extended Control (PSE), Type 12006

This is also referred to as CX006-xxx. This is similar to the PSL, including the facility for alternator power regulation for the 4 feedthroughs. It excludes the power supplies for data circuits. The intrinsically safe power may be configured to be controlled remotely using commands sent from a compatible module (e.g. PLC or IOM).

### PSM Basic Control (PSB), Type 12007

This basic variant includes the facility for input alternator power regulation to the Backplane 4 Pin Power Rail. In all variants of the product the 4 – Pin Power Rail is infallibly separated from all other circuits in the backplane and is delivered across the backplane through a set of redundant connections each capable of carrying full rated power where it may be utilized in other compatible modules e.g. To charge batteries. The use of redundant connections increases system performance in normal operation while adding robustness and increasing reliability in tough environments.

The module has a nominal height of 147.5mm, width of 70mm and a depth of 147.5mm. The integral cable provides power to the PSM from an alternator.

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### Electrical Parameters:

Internal Connectors (Backplane) JEF1, JEF2 *Note 2								
Description	Circuit	Pin	Function	12004 PSL		12005 PSR 12006 PSE		12007 PSB
Ex ia 9 pin Power Rail	BUS A	1	POWER_A	Output Circuit *Note 1	Input Circuit *Note 1	Output Circuit *Note 1	Input Circuit *Note 1	Not connected
		2	GROUND_A					Not connected
	BUS B	7	POWER_B					Not connected
		4	GROUND_B					Not connected
	BUS C	3	POWER_C					Not connected
		6	GROUND_C					Not connected
	BUS D	8	POWER_D					Not connected
		9	GROUND_D					Not connected
	Not Connected	5	Not Connected	Not connected		Not connected		Not connected
Ex ia 24 Pin Signal Rail	Non Safety CAN BUS	10	D_NON_SAFETY_P	U <sub>o</sub> = 9 V I <sub>o</sub> = 1.39 A P <sub>o</sub> = 3.06 W C <sub>o</sub> = 54.15 µF L <sub>o</sub> = 30µH		U <sub>i</sub> = 9 V P <sub>i</sub> = 3.15 W C <sub>i</sub> = 3 µF L <sub>i</sub> = Negligible		Not connected
		11	D_NON_SAFETY_N					Not connected
		19	CAN_5V					Not connected
		12	CAN 0V					Not connected
	Datalogger	28	D_DATALOGGER_P	U <sub>i</sub> = 9V Feed through only		U <sub>i</sub> = 9V Feed through only		Not connected
		29	D_DATALOGGER_N					Not connected
	UPS Toggle	30	UPS3 TOGGLE	U <sub>i</sub> = 9V Feed through only		U <sub>i</sub> = 9V Feed through only		Not connected
		33	TOGGLE COMMON					Not connected
		31	UPS2 TOGGLE					Not connected
		33	TOGGLE COMMON					Not connected
		32	UPS1 TOGGLE					Not connected
		33	TOGGLE COMMON					Not connected
	Safety CAN BUS	13	D_SAFETY_P	U <sub>i</sub> = 9V Feed through only		U <sub>i</sub> = 9V Feed through only		Not connected
		14	D_SAFETY_N					Not connected
		26	SAFETY CAN 5V					Not connected
		25	SAFETY CAN 0V					Not connected
	Heartbeat	17	SAFETY HEARTHBEAT P	U <sub>i</sub> = 9V Feed through only		U <sub>i</sub> = 9V Feed through only		Not connected
		16	SAFETY HEARTHBEAT N					Not connected
	CAN BUS Bridge A	27	CANH_A	U <sub>i</sub> = 9V Feed through only		U <sub>i</sub> = 9V Feed through only		Not connected
		21	CANL_A					Not connected
	CAN BUS Bridge B	22	CANH_B	U <sub>i</sub> = 9V Feed through only		U <sub>i</sub> = 9V Feed through only		Not connected
		23	CANL_B					Not connected
	Spare	15	Reserved for future module	U <sub>i</sub> = 9V Feed through only		U <sub>i</sub> = 9V Feed through only		Not connected
		18	Reserved for future module					Not connected
		20	Reserved for future module					Not connected

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Internal Connectors (Backplane) JEF1, JEF2 *Note 2						
Description	Circuit	Pin	Function	12004 PSL	12005 PSR 12006 PSE	12007 PSB
		24	Reserved for future module	U <sub>i</sub> = 9V Feed through only	U <sub>i</sub> = 9V Feed through only	Not connected
4 Pin Power Rail	Charging Terminals	37	Ground	Output only. Um = 20 V I(thermal) = 11.9 A or 20.4A	For 12005 PSR Input only. Um = 20 V	Output only. Um = 20 V I(thermal) = 11.9 A or 20.4A
		36				
		35	Power		For 12006 PSE Output only. Um = 20 V I(thermal) = 11.9 A or 20.4A	
		34				

**Note 1:** Entity parameters that depend of the position of the configuration jumpers are shown in the tables below.

**Note 2:** JEF1 and JEF2 form a back plane through each module with all signals passing through unless stated otherwise. These connectors to be used by the manufacturer only.

Each circuit in the PSM modules shall use one set of configuration jumpers to source power from only one Power Bus.

If more than one circuit is configured to source power from the same Power Bus the internal capacitance and inductance from each circuit shall be combined.

Permitted configurations	PSM Output #1	PSM Output #2	PSM Output #3	PSM Output #4	PSM Output #5
Jumpers populated	JP2_1 JP2_2	JP2_3 JP2_4	JP2_5 JP2_6	JP2_7 JP2_8	
BUS A	$U_o = 8.95V$ $I_o = 2.4A$ $C_o = 72.3\mu F$ $L_o = 30\mu H$	$U_i = 9V$ Feed through only	$U_i = 9V$ Feed through only	$U_i = 9V$ Feed through only	$U_i = 9V$ Feed through only
BUS B	$U_i = 9V$ Feed through only	$U_o = 8.95V$ $I_o = 2.4A$ $C_o = 72.3\mu F$ $L_o = 30\mu H$	$U_i = 9V$ Feed through only	$U_i = 9V$ Feed through only	$U_i = 9V$ Feed through only
BUS C	$U_i = 9V$ Feed through only	$U_i = 9V$ Feed through only	$U_o = 8.95V$ $I_o = 2.4A$ $C_o = 72.3\mu F$ $L_o = 30\mu H$	$U_i = 9V$ Feed through only	$U_i = 9V$ Feed through only
BUS D	$U_i = 9V$ Feed through only	$U_i = 9V$ Feed through only	$U_i = 9V$ Feed through only	$U_o = 8.95V$ $I_o = 2.4A$ $C_o = 72.3\mu F$ $L_o = 30\mu H$	$U_i = 9V$ Feed through only

Permitted configurations	PSM Input #1	PSM Input #2	PSM Input #3	PSM Input #4	PSM Input #5
Jumpers populated	JP1_1 JP1_2	JP1_3 JP1_4	JP1_5 JP1_6	JP1_7 JP1_8	
BUS A	$U_i = 9V$ $C_i = 5.5\mu F$ $L_i = \text{Negligible}$	$U_i = 9V$ Feed through only	$U_i = 9V$ Feed through only	$U_i = 9V$ Feed through only	$U_i = 9V$ Feed through only
BUS B	$U_i = 9V$ Feed through only	$U_i = 9V$ $C_i = 5.5\mu F$ $L_i = \text{Negligible}$	$U_i = 9V$ Feed through only	$U_i = 9V$ Feed through only	$U_i = 9V$ Feed through only

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BUS C	U <sub>i</sub> = 9 V Feed through only	U <sub>i</sub> = 9 V Feed through only	U <sub>i</sub> = 9 V C <sub>i</sub> = 5.5 µF L <sub>i</sub> = Negligible	U <sub>i</sub> = 9 V Feed through only	U <sub>i</sub> = 9 V Feed through only
BUS D	U <sub>i</sub> = 9 V Feed through only	U <sub>i</sub> = 9 V Feed through only	U <sub>i</sub> = 9 V Feed through only	U <sub>i</sub> = 9 V C <sub>i</sub> = 5.5 µF L <sub>i</sub> = Negligible	U <sub>i</sub> = 9 V Feed through only

External Cable				Entity Parameters
Description	Circuit	Pin	Function	12004, 12006, 12007
Integral Power Cable	IN	1	PowerIn	Um: 90V
		2	PowerIn	
		3	GND	
		4	GND	
	OUT	1	PowerOut	Um: 90V
		2	PowerOut	
		3	GND	
		4	GND	

### Drawing list pertaining to Issue 0 of this Certificate:

Drawing / Document Number:	Page/s:	Title:	Revision Level:	Date: (yyyy-mm-dd)
ZUQPTY4FSNWN-191- 333	1 of 43	12001 Power Supply Module (PSM)	4	2023-11-28
ZUQPTY4FSNWN-191- 475	2 of 43	7593 UPS PCB2 MAIN LEFT COVERSHEET	3	2021-11-23
ZUQPTY4FSNWN-191- 333	3 of 43	7595 UPS PCB3 DAUGHTER RIGHT COVERSHEET	3	2024-02-22
ZUQPTY4FSNWN-191- 333	4 of 43	7597 UPS PCB4 DAUGHTER LEFT COVERSHEET	3	2021-11-23
ZUQPTY4FSNWN-191- 333	5 of 43	7599 UPS PCB5 FLYBACK	3	2024-01-25
ZUQPTY4FSNWN-191- 333	6 of 43	7535 PSL-PCB1-IPC	5	2024-02-13
ZUQPTY4FSNWN-191- 333	7 of 43	7535 Alternator Protection Circuit	3	2021-11-23
ZUQPTY4FSNWN-191- 333	8 of 43	7535 Pre-Regulator DC-DC Converter	3	2021-11-23
ZUQPTY4FSNWN-191- 333	9 of 43	7610 PSM Power	3	2021-11-23
ZUQPTY4FSNWN-191- 333	10 of 43	DS_HT Infallible Voltage Shunt	4	2024-02-13
ZUQPTY4FSNWN-191- 333	11 of 43	DS_HF IS Barrier 6R8	3	2021-11-23
ZUQPTY4FSNWN-191- 333	12 of 43	DS_HJ Backplane_CAN_PS	3	2021-11-23
ZUQPTY4FSNWN-191- 475	13 of 43	DS_HP Inrush limiter	3	2021-11-23
ZUQPTY4FSNWN-191- 475	14 of 43	DS_HK I2C Current+Voltage Sense with GPIO	3	2021-11-23
ZUQPTY4FSNWN-191- 475	15 of 43	DS_EZ Safety Shunt Circuit	5	2024-04-09
ZUQPTY4FSNWN-191- 475	16 of 43	DS_BH OPTO I2C Um:9V	3	2021-11-23
ZUQPTY4FSNWN-191- 475	17 of 43	DS_AM OPTO-2CH-U <sub>i</sub> 9V-5V-3V3_ISIS	3	2021-11-23
ZUQPTY4FSNWN-191- 475	18 of 43	DS_AN OPTO-2CH-U <sub>i</sub> 9V-3V-5V_ISIS	3	2021-11-23

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ZUQPTY4FSNWN-191- 333	19 of 43	7595 PUSH BUTTON & PRESSURE SWITCH	3	2021-11-23
ZUQPTY4FSNWN-191- 333	20 of 43	DS_AZ I2C Opto Isolation NIS-IS	3	2021-11-23
ZUQPTY4FSNWN-191- 333	21 of 43	DS_FL Isolated Voltage Monitor	3	2021-11-23
ZUQPTY4FSNWN-191- 333	22 of 43	DS_FK DIG IO OPTO BARRIER	3	2021-11-23
ZUQPTY4FSNWN-191- 333	23 of 43	DS_HB BARRIER	3	2021-11-23
ZUQPTY4FSNWN-191- 333	24 of 43	DS_HE DIG IO OPTO BARRIER	3	2021-11-23
ZUQPTY4FSNWN-191- 333	25 of 43	7597 UPS_uP_App_Board	3	2021-11-23
ZUQPTY4FSNWN-191- 333	26 of 43	7597 SAFEPSU	3	2021-11-23
ZUQPTY4FSNWN-191- 333	27 of 43	7597 PSU_1V2	3	2014-03-06
ZUQPTY4FSNWN-191- 333	28 of 43	7597 PSU_3V3	3	2014-03-06
ZUQPTY4FSNWN-191- 333	29 of 43	7597 PSU_5V0	3	2014-03-06
ZUQPTY4FSNWN-191- 333	30 of 43	DS_BT MEMORY_SPI_FLASH_4MB	3	2021-11-23
ZUQPTY4FSNWN-191- 333	31 of 43	DS_BR SAFETY µP	3	2021-11-23
ZUQPTY4FSNWN-191- 333	32 of 43	DS_BS Sensor - Temperature – Analog	3	2021-11-23
ZUQPTY4FSNWN-191- 333	33 of 43	DS_BQ BQ_SENSOR-RTC-I2C-0x68-No Coin Cell	3	2021-11-23
ZUQPTY4FSNWN-191- 333	34 of 43	DS_EB ISOLATED CAN TRANSCEIVER	3	2021-11-23
ZUQPTY4FSNWN-191- 333	35 of 43	DS_AV IS BARRIER Ui_9V Ci_5.5uF Po_<3.15W	3	2021-11-23
ZUQPTY4FSNWN-191- 333	36 of 43	DS_EY Isolated Flyback	3	2021-11-23
ZUQPTY4FSNWN-191- 475	37 of 43	MS_EF CUBEx_BACKPLANE_LEFT	3	2021-11-23
ZUQPTY4FSNWN-191- 333	38 of 43	DS_EF CUBEx_BACKPLANE_RIGHT	4	2024-01-04
ZUQPTY4FSNWN-191- 475	39 of 43	DS_HR PSU LDO	3	2021-11-23
ZUQPTY4FSNWN-191- 475	40 of 43	DS_HS Current Limiter	3	2021-11-23
ZUQPTY4FSNWN-191- 333	41 of 43	7423 UPS PCB2 MAIN LEFT COVERSHEET	3	2021-11-23
ZUQPTY4FSNWN-191- 333	42 of 43	7421 LFP Main PCB	3	2024-03-28
ZUQPTY4FSNWN-191- 333	43 of 43	MS_KC 1K3-IS-Barrier	1.0	2024-03-28
CD_12004-A	1	PSM Local Control (PSL) - CERTIFICATION DETAIL	4	2024-02-08
CD_12005-A	1	PSM Remote Control (PSR) - CERTIFICATION DETAIL	4	2024-02-08
CD_12006-A	1	PSM Extended Control (PSE) - CERTIFICATION DETAIL	4	2024-02-08
CD_12007-A	1	PSM Power Supply Basic (PSB) – CERTIFICATION DETAILS	1	2024-02-08
CD_2181-960-A	1	CUBEx Ex Compartment	1	2024-04-17
DS_12004-A	1	PSM Local Control (PSL) - DATA SHEET	3	2024-03-06
DS_12005-A	1	PSM Remote Control (PSR) - DATA SHEET	3	2024-03-06
DS_12006-A	1	PSM Extended Control (PSE) - DATA SHEET	3	2024-03-06

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DS_12007-A	1	PSM Power Supply Basic (PSB) - DATA SHEET	1	2024-03-06
ZUQPTY4FSNWN-191- 470	9	7534 PSM PCB1 Main Right PCB Artwork	1.3	2021-08-17
ZUQPTY4FSNWN-191- 475	9	7592 UPS PCB2 Main Left PCB Artwork	2.4	2024-04-22
ZUQPTY4FSNWN-191- 460	9	7594 PCB3 Isolation Right PCB Artwork	1.3	2021-08-26
ZUQPTY4FSNWN-191- 462	9	7596 PCB4-CPU Left PCB Artwork	1.3	2021-09-14
ZUQPTY4FSNWN-191- 465	9	7598 UPS PCB5 Flyback PCB Artwork	1.3	2024-01-19
ZUQPTY4FSNWN-191- 471	6	7609 PSM Power Breakout Board PCB Artwork	1.1	2015-01-21
7422-1.1	9	7422 CUBEx PSS Main Left Connector PCB Artwork	1.0	2024-01-22
7701-1.0	2	7701 PSB Blank Left Connector PCB Artwork	1.0	2024-01-25
2181-966-7420	6	7420 LFP PCB PCB Artwork	1.1	2024-03-28
ZUQPTY4FSNWN-191- 449	10	7520 UIFP Main PCB PCB Artwork	1.3	2015-01-12
ZUQPTY4FSNWN-191- 450	6	7524 UIFP Flex Keypad PCB Artwork	1.1	2015-01-12
ZUQPTY4FSNWN-57-584	8	7688 BT Face Plate PCB Artwork	1.1	2015-08-10
ZUQPTY4FSNWN-57-584	8	7688 BT Face Plate PCB Artwork	1.2	2024-02-15
ZUQPTY4FSNWN-191-448	1 of 7	2181-936 CUBEx UI Faceplate	3	2021-11-23
ZUQPTY4FSNWN-191-448	2 of 7	7521 UIFP Main PCB	3	2021-11-23
ZUQPTY4FSNWN-191-448	3 of 7	7521 UIFP Load	3	2021-11-23
ZUQPTY4FSNWN-191-448	4 of 7	7521 UIFP LCD	3	2021-11-23
ZUQPTY4FSNWN-191-448	5 of 7	7525 UIFP FLEX Keypad	3	2021-11-23
ZUQPTY4FSNWN-191-448	6 of 7	DS_BZ IS BARRIER Keypad	3	2021-11-23
ZUQPTY4FSNWN-191-448	7 of 7	DS_EJ Bluetooth 4.0 BLE	3	2021-11-23
ZUQPTY4FSNWN-57-574	1 of 2	7689 BTFP Top Sheet	1.1	2015-07-22
ZUQPTY4FSNWN-57-574	2 of 2	DS_EJ Bluetooth 4.0 BLE	1.1	2014-03-06
2181-936-A	1	UIFP CERTIFICATION DETAIL	2	2017-03-02
DS_2160-936-1	1	BTFP Certification Detail	2	2017-03-02
CD_2181-966-A	1	LFP - CERTIFICATION DETAIL	1	2024-03-04
Alternative PCB for PSB Type 12007 only				
ZUQPTY4FSNWN-191- 470	9	7534 PSM PCB1 Main Right PCB Artwork	1.2	2015-01-21

Certificate issued by:

	<b>TestSafe Australia</b> 919 Londonderry Road Londonderry NSW 2753 Australia
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