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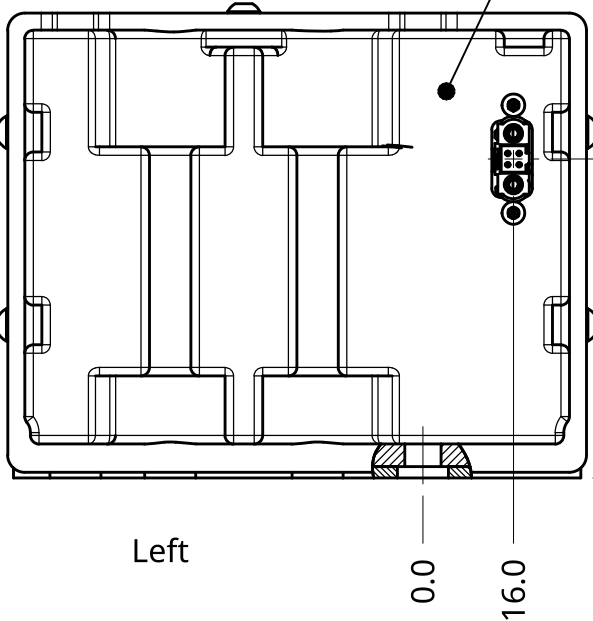
MASS MOMENTS OF INERTIA (g mm ²)	
Lxx	8.793E+06
Lxy	-7.433E+06
Lxz	-1.002E+07
Lyx	-7.433E+06
Lyy	4.166E+07
Lyx	-2.652E+06
Lzx	-1.002E+07
Lzy	-2.652E+06
Lzz	4.043E+07

NOTES:

- MOUNT BATTERY PACK ACCORDING TO APPROPRIATE THREAD-DEPTH AND TORQUE PER FASTENER AND MATING MATERIAL.
- EXTERIOR SURFACES MATTE FINISH AND ANODIZED PER NASA/JSC PRC-5006, TYPE II, CLASS 2, COLOR BLACK.
- PACK MASS IS A CONSERVATIVE ESTIMATE; PRECISE VALUE TBD.

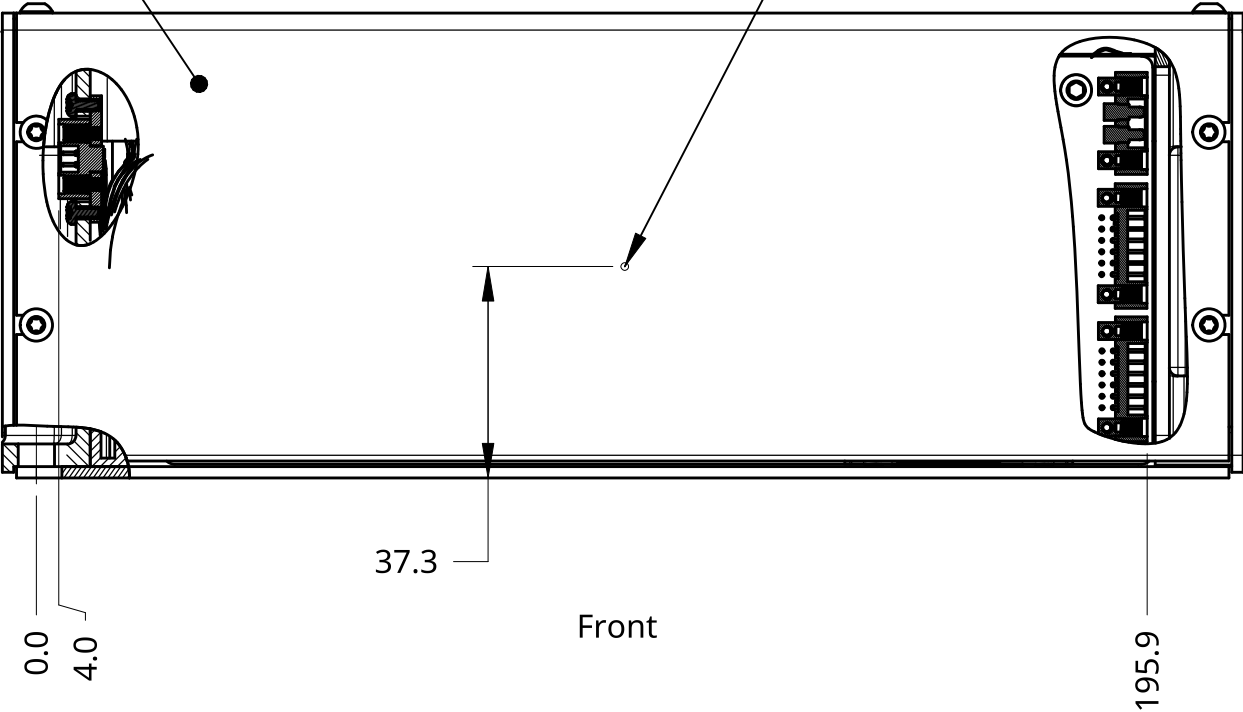
OUTPUT CONNECTORS		
CONNECTOR	BOARD HEADER TYPE	MATING CONNECTOR TYPE
POWER	HARWIN M80-5000000M5-02-PM3-00-00	HARWIN M80-4000000F1-02-PF5-00-000
SIGNAL1	HARWIN M80-5401205	HARWIN M80-4801205
SIGNAL2	HARWIN M80-5401205	HARWIN M80-4801205
AUX POWER	HARWIN M80-5C10405MU	HARWIN M80-4800405

REVISIONS			
Revision	Revision description	Date approved	Approver
01	SPECIFY EXTERNAL COATINGS; REMOVED EXTERNAL TIM	2026-06-10	Jay Manley
UNLESS OTHERWISE SPECIFIED: - DIMENSIONS ARE IN MILLIMETERS - TOLERANCE TO STANDARD: ISO 2768-MK - SURFACE FINISH: 3.2		MP SPACE PTY LTD	
CONFIDENTIAL. DO NOT SHARE NOR DISTRIBUTE WITHOUT CONSENT.		THIRD ANGLE PROJECTION	
DO NOT SCALE DRAWING		TITLE	
BREAK ALL SHARP EDGES AND REMOVE BURRS		ASSEMBLY	
MATERIAL		TLA PACK2 8S3P-8X3 21700	
FINISH		PACK2V2-8S3P-21700	
SEE BOM		SIZE C	DWG NO. 10000100-01-00
		SCALE 3:4	WEIGHT 2550 g ±15g
		SHEET 1 of 3	REV.

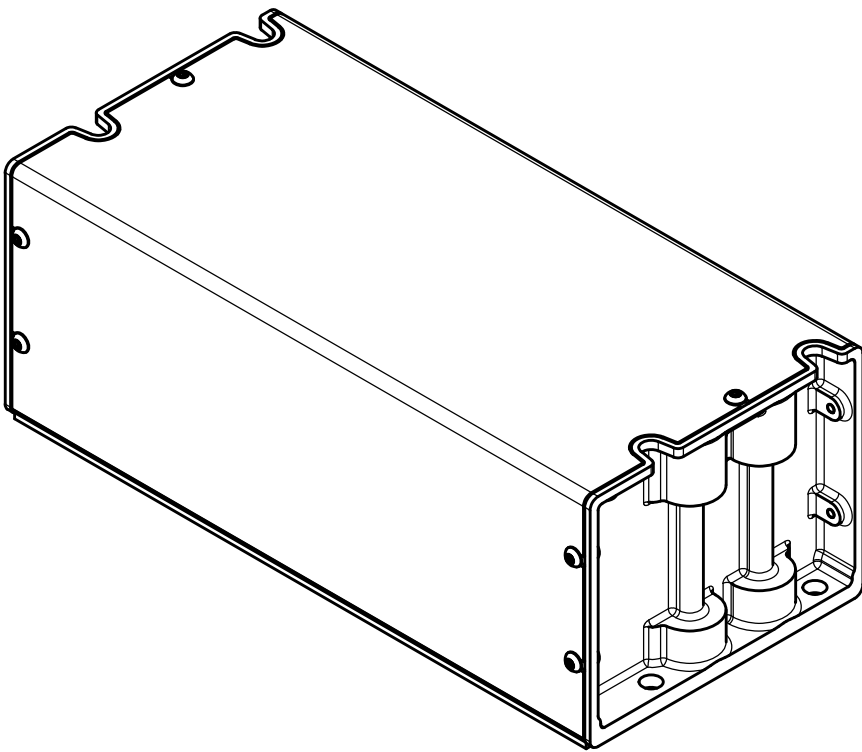


COVER AND ENDPLATES ARE TYPE II BLACK ANODIZED

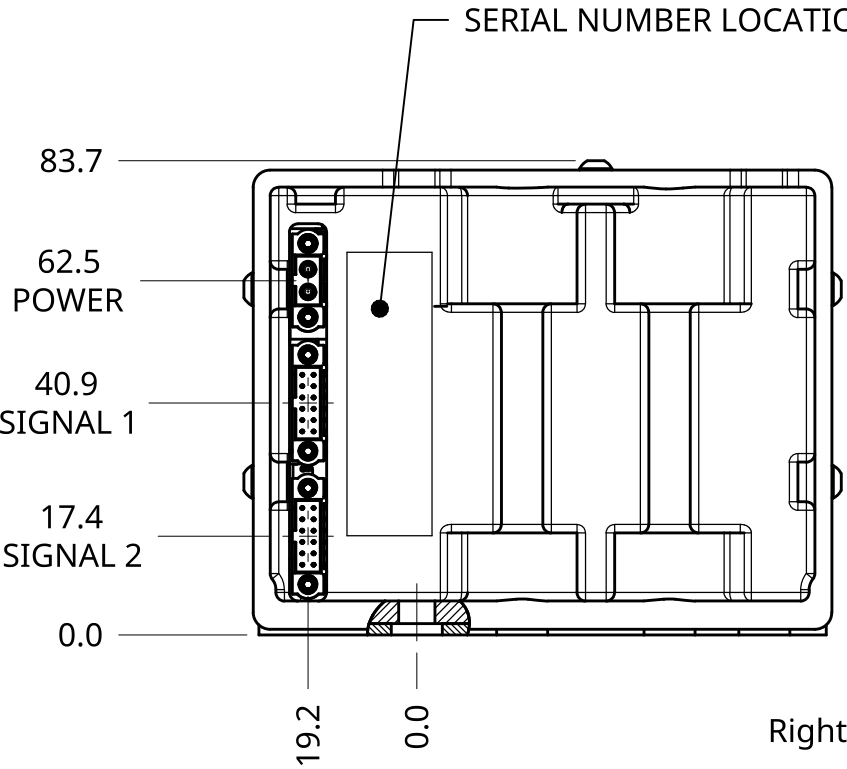
56.3
AUX POWER



CENTER OF MASS



SCALE 1:2



SERIAL NUMBER LOCATION

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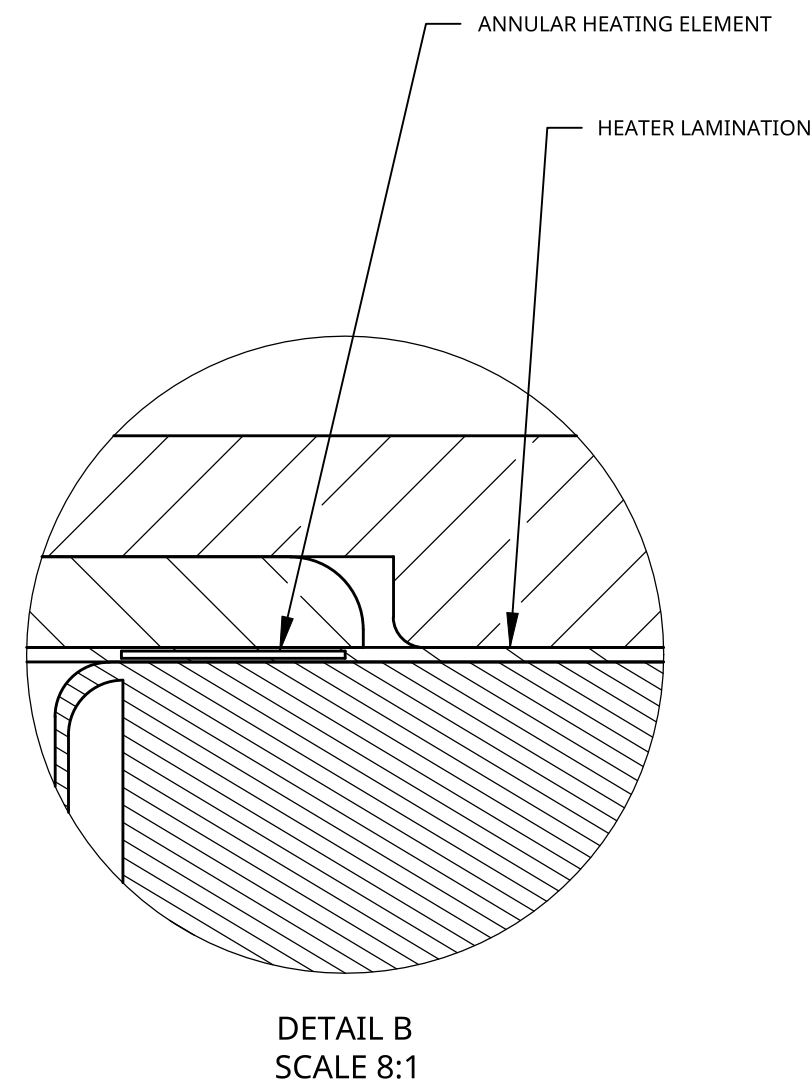
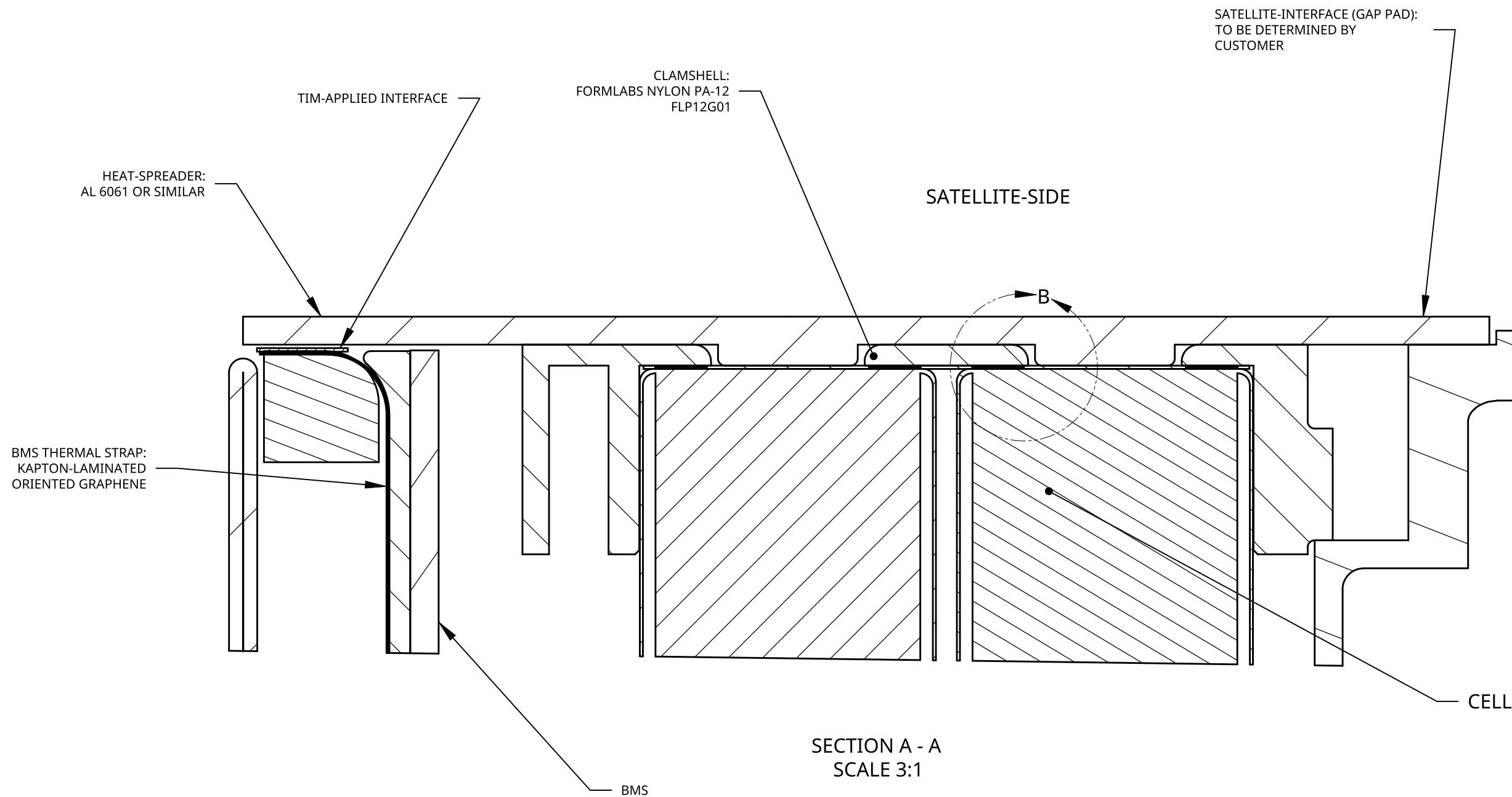
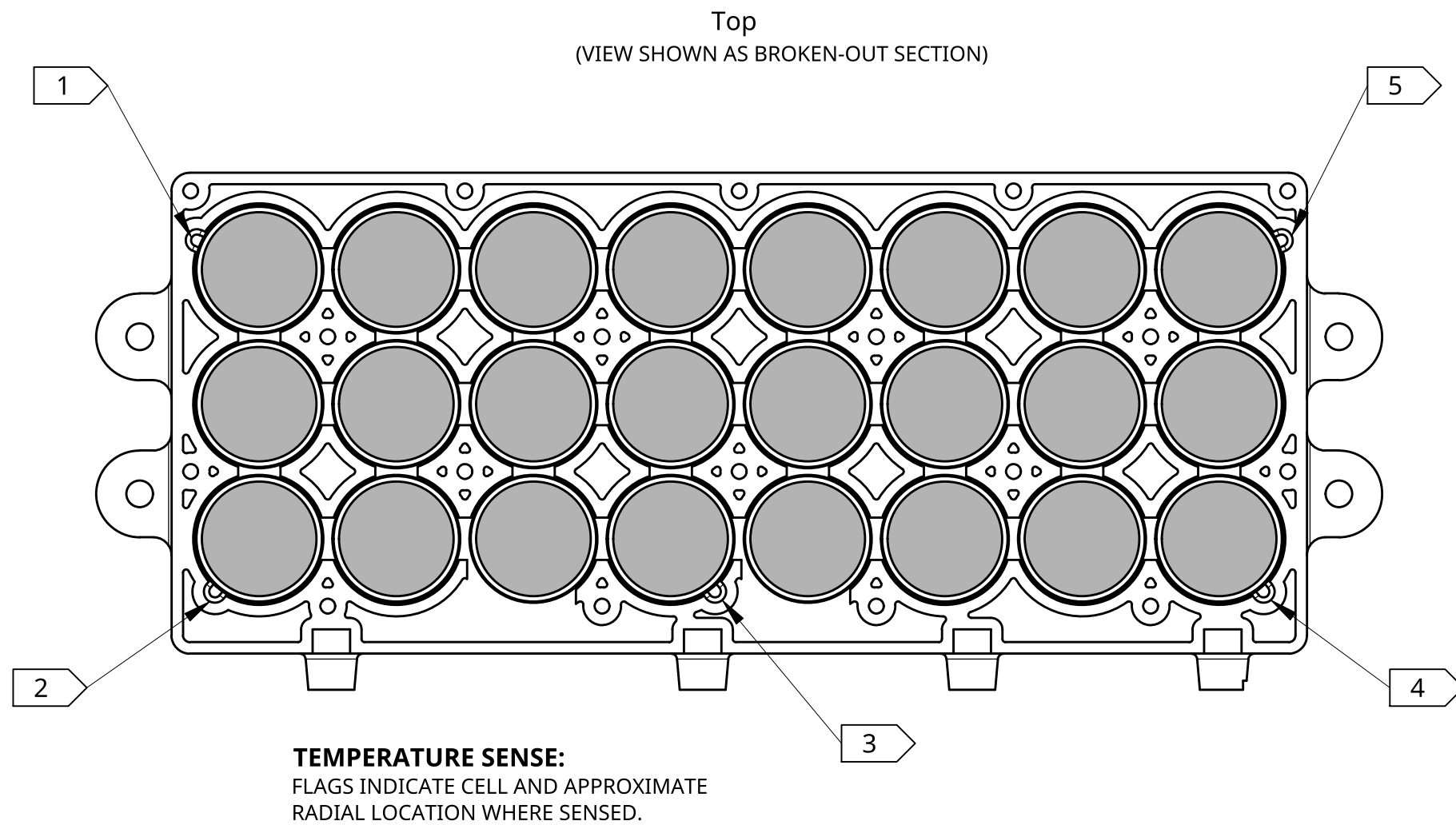
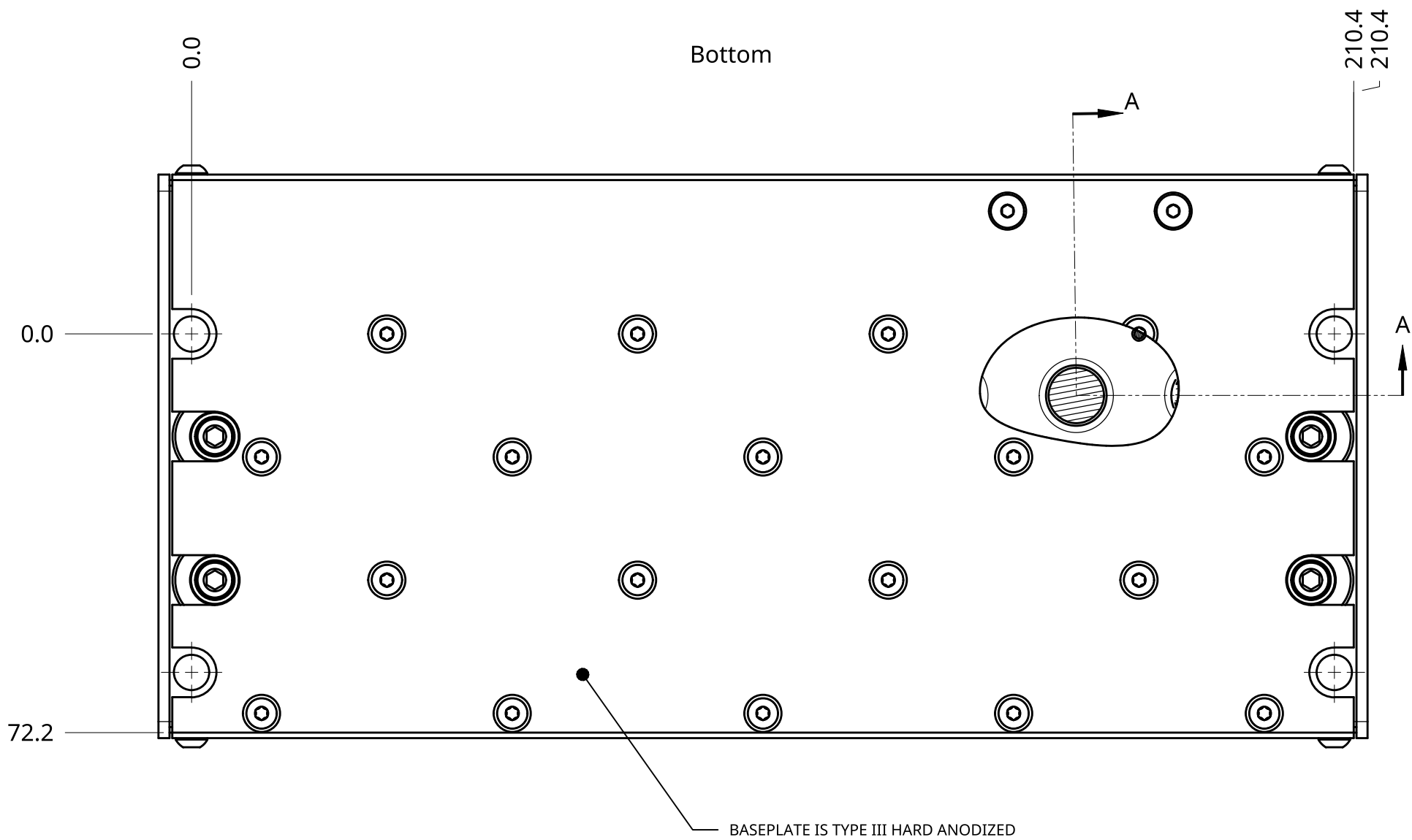
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REVISIONS			
See sheet 1			
MP SPACE PTY LTD			
TITLE			
ASSEMBLY			
TLA PACK2 8S3P-8X3 21700			
PACK2V2-8S3P-21700			
SIZE	DWG NO.	REV.	
C	10000100		
SCALE	1:1	WEIGHT	2550 G
		SHEET	2 of 3

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Parameter	Value	Units	Notes
Cell & Interconnect Nominal Resistance	58.3	mΩ	Estimated terminal-to-terminal at 50 % SoC, 23 °C using 10 s DCIR pulse. Use +40% for worst-case modelling. Provided for energy / power efficiency modelling.
BMS Power-Path Resistance	4.2	mΩ	Includes FETs, sense shunt, and contactors. Adds linearly to cell/interconnect resistance. Use +20 % for worst-case. Provided for energy / power efficiency modelling. (Measured at Ambient Temperature)
Power Dissipation - Steady state	2.6	W	at 0.5C-rate continuous discharge
Power Dissipation - Max	90.2	W	38A during charge at 10 degree C.
Thermal Capacitance	2150	J/K	Estimated ±1% margin. Cells comprise 71% of thermal capacitance; additional 10% is well-coupled heat-spreader and endplates.
Heater Power	72	W	Heater is designed to deliver ~3 watts per cell of heater power at nominal pack voltage. Actual power varies with cell voltage and cell temp.
Current Transient Capability	38	A	Maximum discharge current permitted provided cell temperatures stay ≤ 55 °C. Spacecraft thermal model to verify pulse length vs. thermal capacity.

REVISIONS

See sheet 1

MP SPACE PTY LTD

TITLE

ASSEMBLY
TLA PACK2 8S3P-8X3 21700
PACK2V2-8S3P-21700

SIZE

C

DWG NO.

10000100

REV.

SCALE

WEIGHT

2550 G

SHEET

3 of 3

MP SPACE

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