

2 Cell configuration:
R53, R52 and R76 are placed
R73 and R65 are not placed
JP10 is in position B

3 Cell configuration:
R65 and R73 are placed
R52, R53 and B3 are not placed
JP10 is in position B

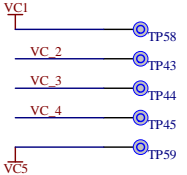
4 Cell configuration:
R65 is placed
R52, R53, R73, R76 is not placed
JP10 is in position A

JP2-4 can also be used so that the connection can have current flow measured

All ports are power connections with bidirectional current flow. VC_1 and VC_5 will experience high currents, the others will not.

VC1-5 provide direct connections to the cells

U_MOD
MOD.SchDoc



H1
MTMM-103-03-S-D-243

BATTERY + TERMINAL

H2
MTMM-103-03-S-D-243

BATTERY - TERMINAL

H3
MTMM-102-02-S-D-196

BATTERY CENTERTAPS



750 Naples Street
San Francisco, California 94112

Title: Battery Module Development Board Cells - Battery Connections			
Part Number:	705-02190	Revision:	A0
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Date:	29/01/2020	Size:	B
		Drawn By:	DJW

Doc. Rev: 01

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	1	2	3	4	5	6																																		
A	<div>ASSY Configuration Codes (Binary OR)</div> <table><tr><th>Bit</th><th>Value</th><th>0 case</th><th>1 case</th></tr><tr><td>0</td><td>1</td><td>Not 2 cell operation;</td><td>2 cell operation, place JP10 in position B and DNP R65 and R73;</td></tr><tr><td>1</td><td>2</td><td>Not 3 cell operation;</td><td>3 cell operation, place JP10 in position B, DNP B3, R52, R53 and R76;</td></tr><tr><td>2</td><td>4</td><td>Not 4 cell operation;</td><td>4 cell operation, Place JP10 in position A, DNP R52, R53, R73 and R76;</td></tr></table>				Bit	Value	0 case	1 case	0	1	Not 2 cell operation;	2 cell operation, place JP10 in position B and DNP R65 and R73;	1	2	Not 3 cell operation;	3 cell operation, place JP10 in position B, DNP B3, R52, R53 and R76;	2	4	Not 4 cell operation;	4 cell operation, Place JP10 in position A, DNP R52, R53, R73 and R76;	<div>Test Point List</div> <table><tr><th>Number</th><th>Net</th><th>Function</th></tr><tr><td>TP43</td><td>VC2</td><td>3rd center-tap</td></tr><tr><td>TP44</td><td>VC3</td><td>2nd center-tap, positive side of second lowest cell</td></tr><tr><td>TP45</td><td>VC4</td><td>1st center-tap, positive side of lowest cell</td></tr><tr><td>TP58</td><td>VC1</td><td>negative side of bottom cell</td></tr><tr><td>TP59</td><td>VC5</td><td>positive side of highest cell</td></tr></table>		Number	Net	Function	TP43	VC2	3rd center-tap	TP44	VC3	2nd center-tap, positive side of second lowest cell	TP45	VC4	1st center-tap, positive side of lowest cell	TP58	VC1	negative side of bottom cell	TP59	VC5	positive side of highest cell
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D						<div><div><div><div><div></div><div>PUMPKIN</div><div>INCORPORATED</div></div><div>750 Naples Street San Francisco, California 94112</div></div></div><div><div><div>Title:Battery Module Development Board Cells - Modification Information</div><div>Part Number:705-02190</div><div>Revision:A0</div></div><div><div>File:MOD.SchDoc</div><div>Sheet:17 of 17</div></div><div><div>Date:29/01/2020</div><div>Size:B</div><div>Drawn By:DJW</div></div></div></div>																																		
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