SERIES: iKIT CELL INTEGRATION KIT-PRELIMINARY

FEATURES

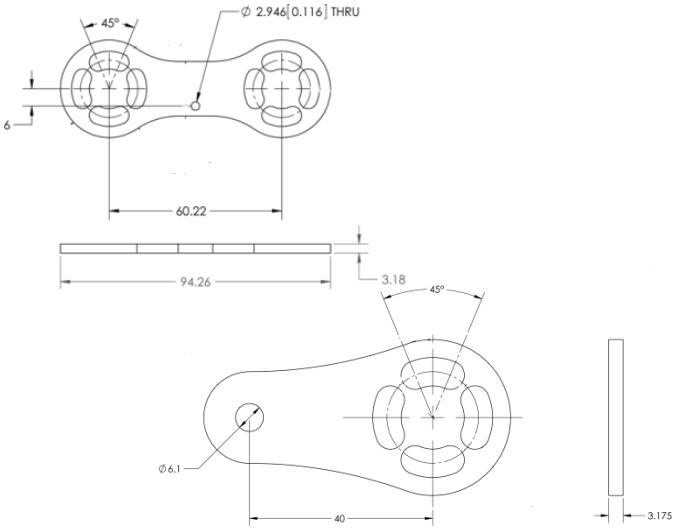
- Active Balancing
- Individually balanced cells
  Matrix or offset packaging
- RoHS Compliant

APPLICATIONS

- Low Volume Custom Modules
- Validation Testing
- System Prototypes
- Rapid Development

PRODUCT SPECIFICATIONS:

Operating Temperature Range	-40°C to +65°C
Storage Temperature Range	-40°C to +70°C
Isolation Voltage/Hi-Pot	2500 V
Balancing Trigger Voltage	≥2.15V
Balancing Trigger Off Voltage	≤2.05
Balancing Resistance	50Ω
Overvoltage Clamping Voltage	2.7V/Cell
Clamping Current	360-390mA
Maximum System Voltage	750 V
Standards Compliance	RoHS, CE
Cell Management	Active – 2 Stage 1 stage per cell 1 stage per cell pair



Part Number iKIT60MM2V7A2S-001		
Parameter	**Unit**	
Peak Current Rating	A	2000
Constant Current Rating	A	200
Fastener Torque Rating (max)	Nm	5

Parts Included	**Part Number**	**Quantity**
Bus Bars	iBAR60MMA2S-001	6
Balancing Cards	iBAL60MMA2S-001	4
Bolts	M6x15	26
Terminal Ends	iBAR60MMA1S-001	2

**All specifications subject to change without notification; please contact Ioxus for the latest information

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iKit Installation Instructions

1. Stand cells on end in alternating positive/negative orientation.

2. Apply aluminum anti-oxidizing (No-Al-Ox or equivalent) agent to the cell side surface of each buss bar. Be careful to clean excess anti-oxidation agent from all surfaces and hands.

3. Place bus bars on top of the cells, aligning the threaded holes in the cells with the slots in the bus bars.

   Note: Only use terminal end bus bars on the first and last cell in a series chain.

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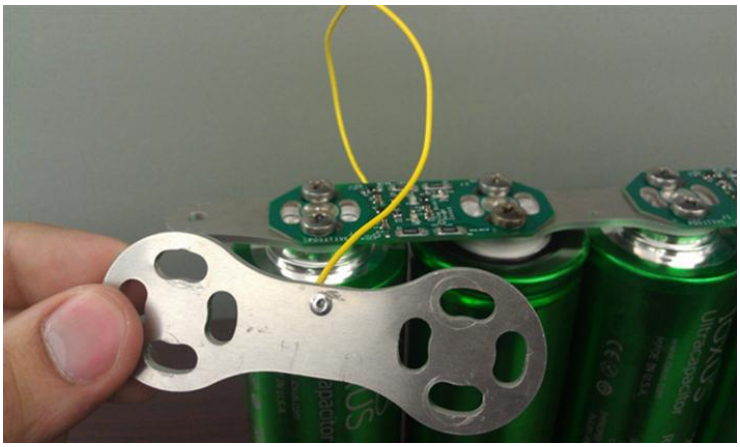
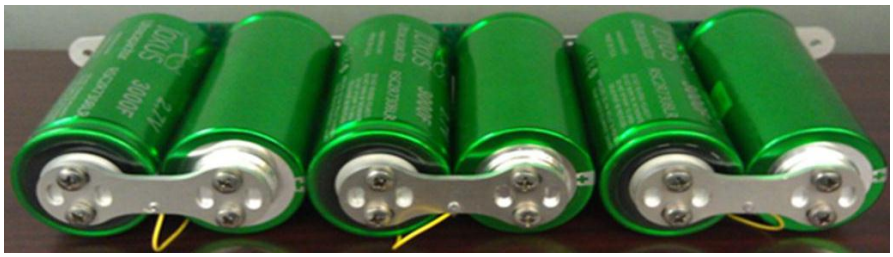
4. Lay the balancing PCBs over the bus bars in the indicated direction, and secure with screws.

5. Rivet each PCB flying lead to the remaining bus bars using the supplied rivets



6. Lay the module on its side, apply anti-oxidation agent to cell side of each buss bar and secure the remaining bus bars, making sure that the PCB that the bus bar is connected to is directly opposite the bus bar



Please note that this is representative of the process only and this process may be completed many ways. For example, cells may be staggered up to 60°

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