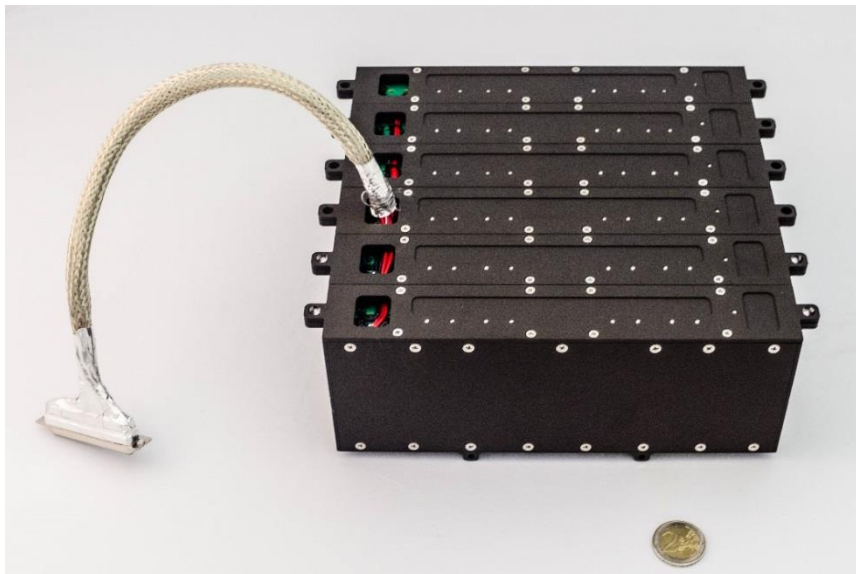


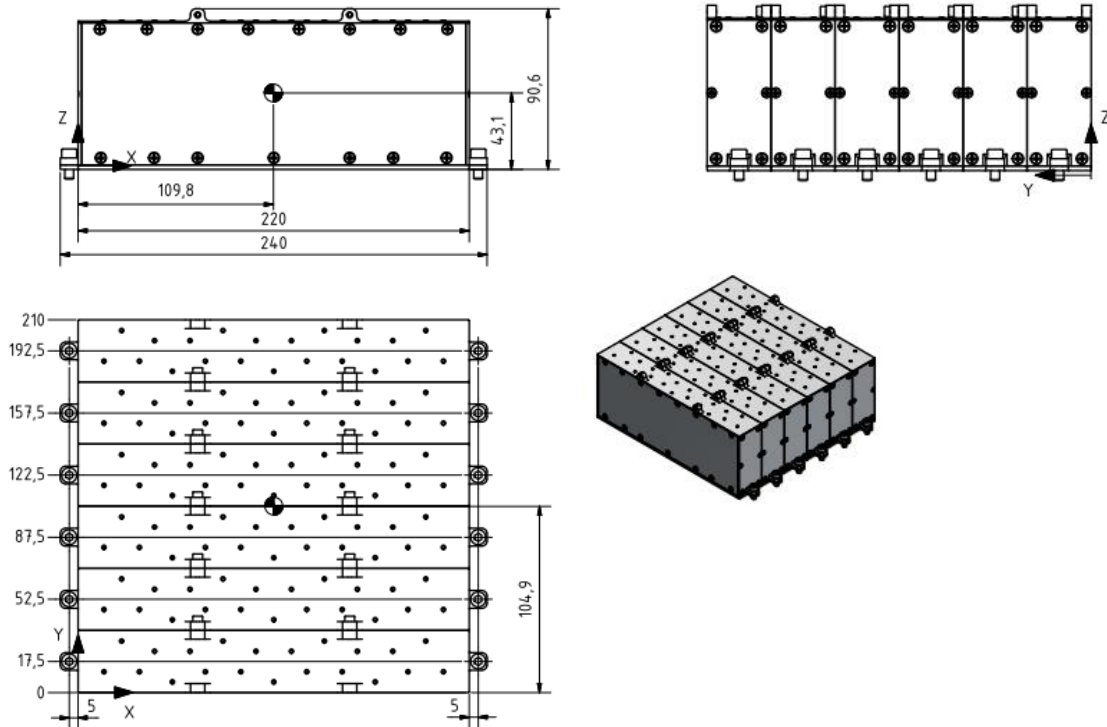
BAT-100 (OBSOLETE)

The BST BAT-100 is a modular battery system for small satellites. It is based on Lithium-Ferrite (Li-Fe) cells. The BST's Li-Fe battery technology offers 10x more cycle over Li-Io or Li-Po batteries and is significantly less hazardous. The battery block is protected for over charging (non-destructive), tolerant against deep discharge (non-destructive) and offers cell balancing. It is space proven and has a design life of 5 years lifetime in LEO.



BST Li-Fe Battery System

CHARACTERISTICS	
Size	240x210x91mm ³
Weight	5940g
Nominal Voltage	23.1V
Capacity	345Wh
Storage Temperature	-30°C to +50°C
Operating Temperature	-20°C to +40°C
Design Life	5 years LEO Tested for >30000 Cycles @ 1C & 10% DoD
Space Heritage	Yes
Radiation Test (Co60)	30 krad



DETAILED CAPABILITIES	
Power Draw	
Peak	>1kW
Recommended @ 0.5C	<170W
Deep Discharge Tolerance	non-destructive external protection recommended (Schmitt trigger)
Charging	
Peak	60.0A
Recommended @ 0.5C	7.5A
Over Charge Protection	non-destructive & resettable shunt
Lifetime	
Accelerated Lifetime Testing	3000 Cycles @ 1C charge / discharge & 100 % DoD Result: <3% Capacity fade
Modularity	
Voltage	23.1V standard Scalable for 12V, 15V, 18V, 28V
Capacity	2.5A per string, 1-10 strings