

BC50kW1000V

Battery Converter



The 50kW is a high power, bi-directional DC conversion module specifically designed to meet the application of energy storage devices, DC microgrids and the cascade utilization of retired batteries:

- Wide battery voltage range 200V – 1000V
- Wide bus input voltage range 400V – 900V
- Max. Efficiency 98.3%
- Full featured protection

Easy Setup & Installation

Wide operating ranges for battery storage system.

High Performance

Isolated topology with peak efficiency up to 98.3%.

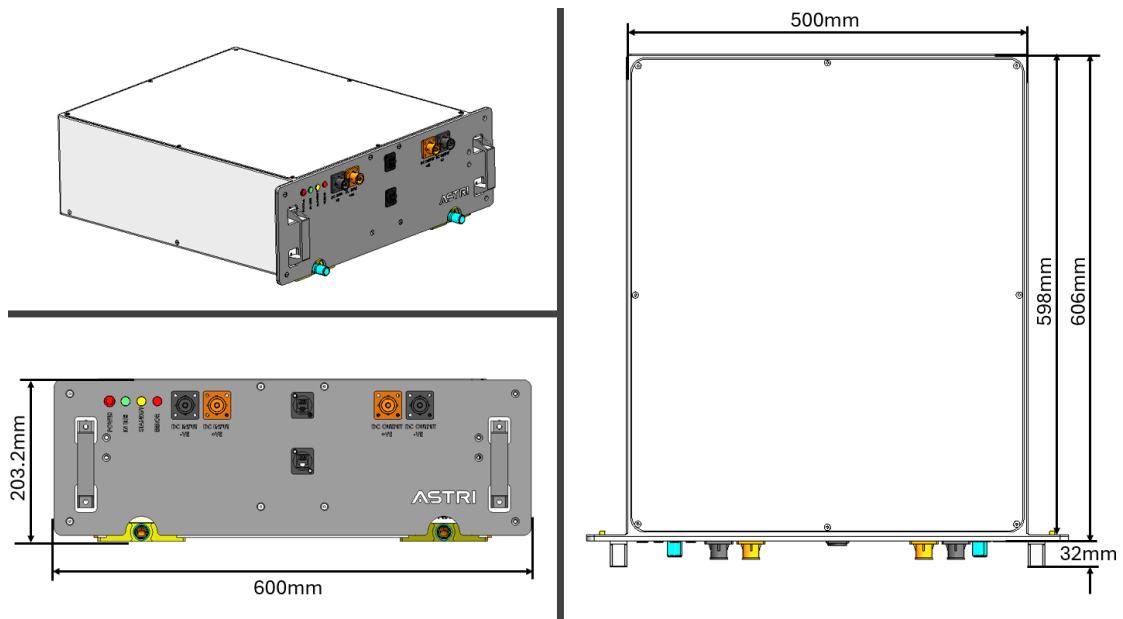
Remote/On-site Monitoring

Remote monitoring with Can Bus.

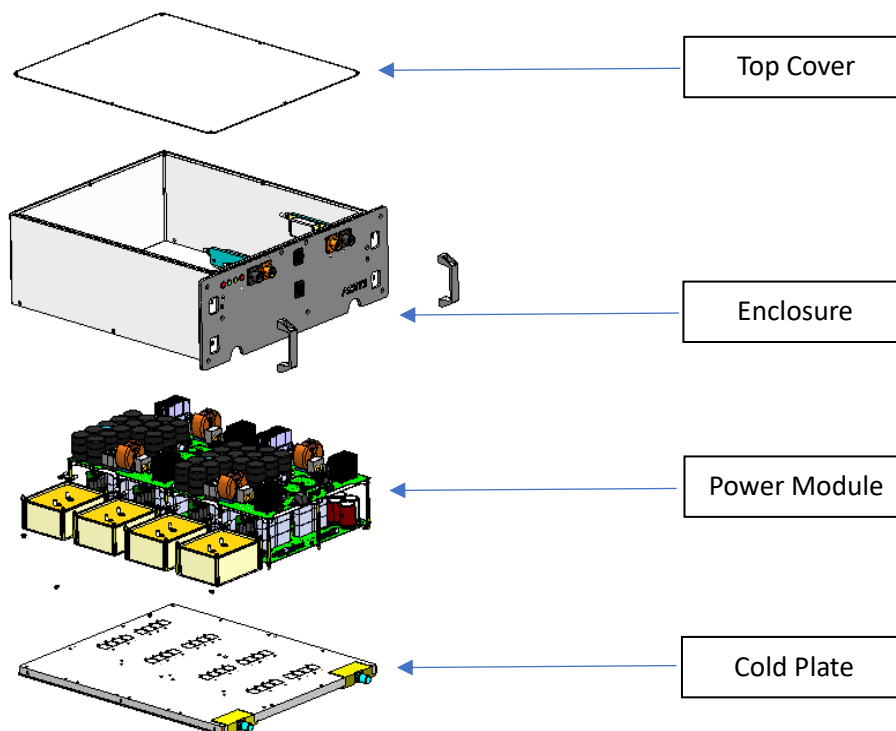
Product Specification

Output DC (Battery side)	
Output Power Range	50 kW
Output Voltage Range	200 Vdc – 1000 Vdc
Output Current Range	0 – 120 A
Output Voltage Accuracy	< +/- 0.5%
Output Current Accuracy	< +/-1% (Output loading of 20% – 100%)
Input DC (Bus side)	
Input Power Range	50 kW
Input Voltage Range	400 Vdc – 900 Vdc
Input Current Range	0 – 100 A
Input Voltage Accuracy	< +/- 0.5%
Input Current Accuracy	< +/-1% (Output loading of 20% – 100%)
Efficiency	
Max. Efficiency	98.3%
Equipment Protection	
DC Output Overcurrent Protection	Yes
DC Output Overvoltage Protection	Yes
DC Input Overcurrent Protection	Yes
DC Input Overvoltage Protection	Yes
Thermal Protection	Yes
Output Undervoltage Load Drop Protection	Yes
General Data	
Operating Temperature Range	-40 °C to +55°C, Derating at 45°C and above
Permissible Ambient Humidity	0 – 100 %
Permissible Altitude	2000 m
Noise	≤ 25 dB
Topology	Isolated
Communication	Can Bus
Cabinet Size (W x H x D)	500 mm x 203.2 mm x 598 mm (Excluding Connectors and Brackets)
Weight	53 kg
Type of Cooling	Water Cooling

Dimension



Product Breakdown



Efficiency

