

65kW Electrical Accumulator Unit 340Vdc to 270Vdc

The EAU is a bi-directional DC-DC converter, working in conjunction with a Li-Ion battery, which stabilizes a DC Bus during transients caused by electro-mechanical and regenerative loads. The EAU supports peak power load demands to increase Generator mission capability. Regenerative voltage spikes and surges are captured and returned to a battery or ultra-cap power source, eliminating the need for dissipative solutions.



Features:

- Best-in-Class SiC MOSFETs
- ♦ High Efficiency
- High Peak Power Capable
- Reduced weight versus Silicon
- High Reliability
- MIL-STD 704, 270V DC System
- EMI MIL-STD-461F
- Overcurrent & Overvoltage Protection
- Battery Charging
- 28V logic level status reporting and input commands
- Serial Data input and reporting
- Derating NAVMAT-P-4855-1
- MTBF > 20,000 Hours, AUF at 60°C
- AEC-Q101 SiC device qualification

Physical: (See ICD 5001001)

Weight:	13.6kg (30 lbs.)
Dimensions:	489mm x 346mm x 155mm
	(19.24" × 13.64" × 6.12")
Connector:	Power: Smiths HBB 300 Amp Series
	Signals: D38999 24 Shell
Mounting:	4.8mm bolt (#10) (2x)

Environmental:

Operating Temperature: -55°C to +85°C Vibration: MIL-STD-810E, Transportation Humidity: MIL-STD-810E, Method 507, Procedure III Temperature Shock: MIL-STD-810E, Method 503.3

Electrical I/O:

J1: 28V logic level I/O and Serial Bus J2: 28V input power

J3: APU Start 270V J4: Battery Bus 270V J5: Battery J6: Battery Return

Part Number	Input Voltage	Output Voltage	Output Current (A)	Regulation (line, load, temp)	Ripple & Noise (Vpk-pk)	Output Power (W)
5001000G1	270 - 340	270	240	3.0%	2%	65,000



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