

**Power Conversion Module 1 (PCM-1) and Ship Service Converter Module (SSCM)
DC/DC Converter**

The PCM-1 converts 1000VDC to 800VDC as part of the Integrated Fight-Through Power System. The PCM-1 consists of several 100kW Ship Service Converter Modules (SSCMs) that are connected in parallel and are designed to share the total PCM load, up to several megawatts.



100 kW Ship Service Converter Module



PCM-1 Cabinet

100 kW Integrated Power System Module Specification

Power (kW)	100kW/Module (125kW DDX)
Input	925-1035 VDC
Output Voltage	350-800 VDC
Output Droop	4%
Voltage Ripple	1% of nominal, 15KHz
Voltage Transient 0 to 100%	17%
Transient Recovery	0.1 second
Overload	1.8 PU, 5 seconds
Shock & Vibration **	MIL-S-901D, MIL-STD-167
EMI/EMC **	MIL-STD-461E