

SCE Model 825 Ruggedized Navy Power Supply

Output

Output Voltage Range	Factory set to 28.0V (other voltages possible)
Output Current Range	0 to 30 Amp

Input

Input Voltage Range	85-275VAC or 140-400VDC Single phase 50-400hz
Full Load Power, 120VAC	950W
No Load Input Power	15W
Peak In-Rush Current	Active inrush limiter, 12Ω resistor equivalent

Output Voltage

Load Regulation 10% - 100%	1.0% Zero to full load
Line Regulation 90% - 110% Normal	0.5%
Dynamic Response 15 to 30Amp step	1V / 1mSec
Ripple and Noise	50mVrms

Protection

Current Limit	Factory set to 35 Amps (field firmware adjustable)
Withstand continuous short circuit	Yes
Overvoltage	Factory set to 31V (field firmware adjustable)

Miscellaneous Electrical

Efficiency, Nominal Load, Nominal Line	88-90%
Switching Frequency	140khz
Power Factor Rated Load, Nominal Line	Better than 98% at 60hz
Emi Filtering	Yes
Cooling	Passive Convection (no fans)
Fuses/Input Protection	Resettable Panel Circuit Breaker
Remote Voltage Sense	No (Factory option)
Remote Enable	No (Factory option)

Environmental

Operating Ambient Temperature	-55°C to 55°C - MIL-STD-810G, Method 501.5 & 502.4 Proc. II
Storage Ambient Temperature	-60°C to 70°C – MIL-STD-810G, Method 501.5 & 502.4 Proc. I

Humidity	100% Condensing – MIL-STD810G, Method 507.5
Vibration	MIL-STD-167-1A Type 1, 4-25Hz, and MIL-STD-810G, Method 514.5 Cat 2 and 21 (Trans and Shipboard)
Immersion	To 10ft.
Shock	Grade B, Type A, Class II, (12-16Hz Deck Barge), MIL-HDBK-2036 (Shock): MIL-S-901D
DC Magnetic Field	DOD-STD-1399-70-1
Non-Operating Altitude	MIL-STD-810G, Method 500.5 Procedure I
EMI/EMC	MIL-STD-461F Surface Ships

Mechanical

Outline / Mounting	See drawing
Input Power Connector	JD38999/20FE6PN Mate: JD38999/20FE6SN
Output Connector	JD38999/20WG75SN Mate: JD38999/26WG75PN
Operating Orientation	Cooling fins vertical
Weight	Less than 25lbs.

Indicators & Controls

Output Voltage, Current	3 digit readout of Volts, Current
Temperature Status	Temperature; OK/Warm/Hot
Output Status	Power Good, unit in Current Limit, Fault
Input Voltage Status	Input Voltage OK, Input Voltage Low
Power Supply Status	Power Good, in Current Limit, Fault
Circuit Breaker	Input power ON/OFF

Programmability/Diagnostic

Field accessible port to permit:
 Change operating parameters
 Calibration
 Diagnostics

Maintenance Schedule

None Required