



- AC/DC Power Supplies
- DC/DC Converters
- UPS
- Battery Chargers
- Inverters
- Frequency Converters

LEAVE NO MARGIN FOR ERROR

Raptor Series

(COTS / MOTS)



The Raptor Series power solution, with its reliable construction, is best suited for use in today's military environment.

Its robust waterproof housing, high performance, and superb reliability make the Raptor Series the ideal DC power source for use in shelters, armored vehicles, avionics, naval and open air applications.

The standard Raptor Series can be tailored to meet your specific project requirements.

ITAR Compliant

SCHAEFER

Contact Schaefer to discuss the best solution engineered to meet your critical application

Raptor Series

Available Power Systems

28VDC 40A 1200W

28VDC 50A 1500W

28VDC 65A 1800W

(Parallelable and other power levels available)

Input Options

The following input options are available:

V0 230 179VAC to 265VAC 1-Phase

V1* 120 88VAC to 142VAC 1-Phase

V3* 115 88VAC to 142VAC 3-Phase

V4 208 155VAC to 245VAC 3-Phase

V6* 120/230VAC 88VAC to 142/179VAC to
265VAC 1-Phase

V7* DC 125VDC to 400VDC

Input Specifications

Operating Frequency: 45-440Hz

Efficiency: 85% nominal

Power Factor: >0.99 at nominal load for V0, V4
<0.95 at nominal load for V1, V3, V6

Soft Start: Initial inrush current limit

Current THD: <7% (V0, V4)

Output Specifications

Operating Mode:

Constant voltage or constant current with automatic crossover.

Polarity:

Floating output: either positive or negative pole may be grounded.

Output Stabilization with Input Fluctuations:

50mV for specified extremes of input voltage.

Output Stabilization with Load Fluctuations:

+/-0.3V Over no-load/full-load range.

Ripple and Noise:

300 mVp-p MAX., 30mV RMS max.

Operational Temperature:

-40°C to +70°C (derating above 40°C)

Cooling:

Natural Convection.

* Additional specs available upon request

Protection Features

- Input power circuit breaker
- Output Current Limit
- Output Over Voltage Protection
- Low output voltage alarm
- Over temperature
- Out-of-Specs input voltage
- Voltage sense line
- Reversed battery polarity protection
- Leakage current from the battery to the power supply when grid supply is off, it's <10mA
- Low voltage disconnect option

Mechanical Specification Dimensions

	1200W	1800W
	1500W	
Width	180mm	200mm
Height	270mm	280mm
Depth	370mm	370mm
Weight	12.5kg	15kg max.

Color Case Standard: FEDERAL STD-595 Green No#34083. Other colors available upon request.

Operational Conditions

Temperature - Operating:

MIL-STD-810D, Method 502.2 - Low Temperature

MIL-STD-810D, Method 501.2 - High Temperature

Vibration:

Method: MIL-STD-810D Method 514.3, Cat 1

Mechanical Shock:

Method: MIL-STD-810D Method 516.3 Proc 1

Humidity:

95% RH At 40°C

Meets MIL Standards

- MIL-STD-461C EMI (CE01, CE03, CS02, CS06, RE02, RS02, RS03)
- MIL-STD-704D Aircraft Electrical Power
- MIL-STD-1399 Navy Electrical Power
- MIL-STD-810C, D, E Environmental Test Method
- MIL-HDBK-217F Reliability Stress and Failure Rate

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