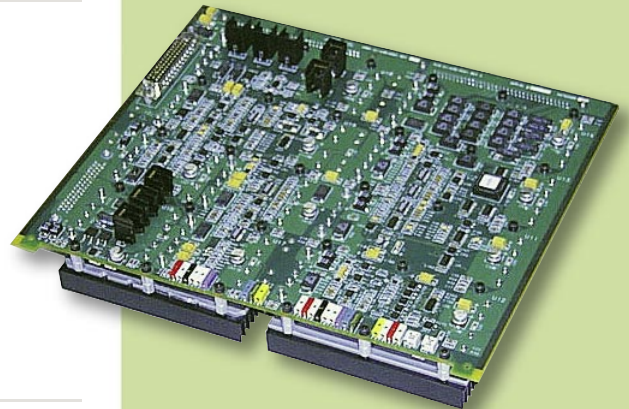


Ground-based Missile Test Equipment

INPUT	28 Vdc
OUTPUT	<ul style="list-style-type: none">• 5 Vdc @ 13.0 Amps (#1)• 5 Vdc @ 13.0 Amps (#2)• 1.5 Vdc @ 0.5 Amps• 15 Vdc @ 0.8 Amps• -15 Vdc @ 0.8 Amps• -10/-17 Vdc @ 1.5 Amps (switchable output)• 17 Vdc @ 1.5 Amps• 9 Vdc @ 4.8 Amps• 28 Vdc @ 0.8 Amps
TOTAL POWER	250 Watts
WEIGHT	6.0 lbs.
DIMENSIONS	11.25" x 9.75" x 2.0"
OPERATING TEMP.	0°C to +70°C
COOLING	Forced air (200 LFM required)



This high-density power supply provides a total of 9 outputs from a nominal 28 Vdc input. Total power is 250 Watts. Three of the 9 outputs are user-programmable for dynamic shifting of the output voltage to accommodate system requirements.

Ground Mobile Test System

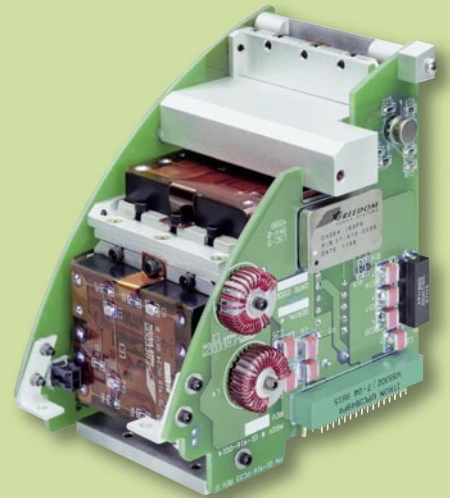
INPUT (AC)	<ul style="list-style-type: none"> • 102 – 250 Vac, Single-phase, 48 – 400 Hz • 102 – 250 Vac, Three-phase (L-L), 48 – 400 Hz
INPUT (DC)	18 – 32 Vdc (MIL-STD-704F)
OUTPUT	<ul style="list-style-type: none"> • Ten independent programmable outputs: 0 – 40 Vdc; 0 – 5 Adc • Two VXI chassis outputs: +/- 24 V; +/-12 V; 5 V; 2 V; -5.2 V
TOTAL POWER	2 kW
WEIGHT	85 lbs.
DIMENSIONS	17.5" x 9.0" x 25" (not including shock mounts)
OPERATING TEMP.	-10°C to +55°C
COOLING	Internal fans
COMPLIANCE	<ul style="list-style-type: none"> • MIL-STD-461 (EMI) • MIL-PRF-2880F (functional shock and loose cargo) requires external transit case
OTHER	<ul style="list-style-type: none"> • Virtual Instrument Software <ul style="list-style-type: none"> – LABVIEW™ Drivers, ATEasy™ Drivers – Stand alone software control panel • SCPI Compatible <ul style="list-style-type: none"> – IEEE 488.2 (GPIB) interface – RS232 / RS422 / RS485 (optional) – USB and TCPIP (802.3) – Standard VXI11 type LAN interface



Two independent VXI mainframe power supplies, up to 1 kW each. Offers flexible AC or DC input power options.

Missile Guidance & Control

INPUT	28 Vdc
OUTPUT	Two factory-configurable DC outputs
TOTAL POWER	Up to 200 Watts
WEIGHT	<2.5 lbs.
DIMENSIONS	4.4" x 4.7" x 3.2"
OPERATING TEMP.	-55°C to +85°C
COOLING	Conduction
COMPLIANCE	<ul style="list-style-type: none">• MIL-STD-461 (EMI)• MIL-STD-810 (shock & vibration)
OTHER	<ul style="list-style-type: none">• Current limiting• Programmable start up sequence• Undervoltage lockout• 20 Gs acceleration



Operating from 28 Vdc battery output, this highly ruggedized power supply offers two isolated DC outputs.

Aerospace & Defense

Reverse Battery Protection Module

INPUT	28 Vdc
OUTPUT CURRENT	60 Amps (max.) (0.3 Vdc internal voltage drop max.)
WEIGHT	3 lbs.
DIMENSIONS	4.0" x 6.0" x 1.97"
OPERATING TEMP.	-55°C to +85°C
COOLING	Conduction
COMPLIANCE	<ul style="list-style-type: none">• MIL-STD-704 (aircraft)• MIL-STD-1275 (ground vehicle)• MIL-STD-461 (EMI)
OTHER	<ul style="list-style-type: none">• Reversed battery protection to 100 Vdc• Battle override switch• Built-in wiring confidence test

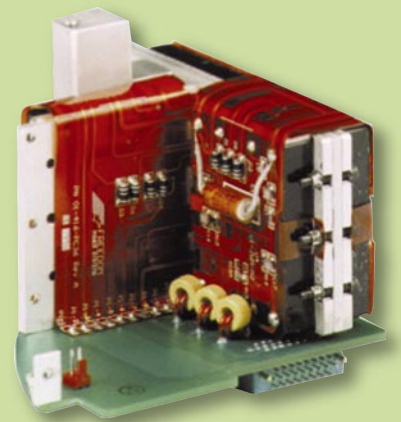


The 544 is designed to provide high current forward and zero current under reversed polarity input conditions. It protects the load from wiring errors, whether or not the unit being powered has inherent protection, or inadequate protection from wiring faults.

Aerospace & Defense

Missile Guidance and Control

INPUT	18 – 36 Vdc
OUTPUT	<ul style="list-style-type: none">• 18 Vdc @ 5.5 Amps• -18 Vdc @ 2.6 Amps• -9 Vdc @ 2.4 Amps
TOTAL POWER	168 Watts
WEIGHT	< 3.5 lbs.
DIMENSIONS	3.3" x 4.8" x 4.4"
OPERATING TEMP.	-55°C to +85°C Ambient
COOLING	Conduction
COMPLIANCE	HALT qualified
OTHER	<ul style="list-style-type: none">• Current limiting• Sequence input



This 168 Watt solution provides three outputs in a ruggedized supply to power analog circuitry from a 28 Vdc battery input.

Ruggedized 19" Rack Mount Supply

INPUT	<ul style="list-style-type: none">• 115 Vac, Single-phase (MIL-STD-1399)• 10 ms Hold-up time
OUTPUT	<ul style="list-style-type: none">• 28 Vdc, 415 Watt isolated output• 5.5 Vdc, 415 Watt isolated output
TOTAL POWER	830 Watt
WEIGHT	18 lbs.
DIMENSIONS	16.5" x 3.5" x 16.5"
OPERATING TEMP.	0°C to +50°C
COOLING	Internal fan
COMPLIANCE	MIL-STD-461E (EMI): CE102, CS101, CS114, CS116, RE101, RE102, RS101, RS103
OTHER	<ul style="list-style-type: none">• Power Good LEDs for both input and output voltages• Remote/Local activate via IEEE 802.3 100 base FX• Elapsed time meter

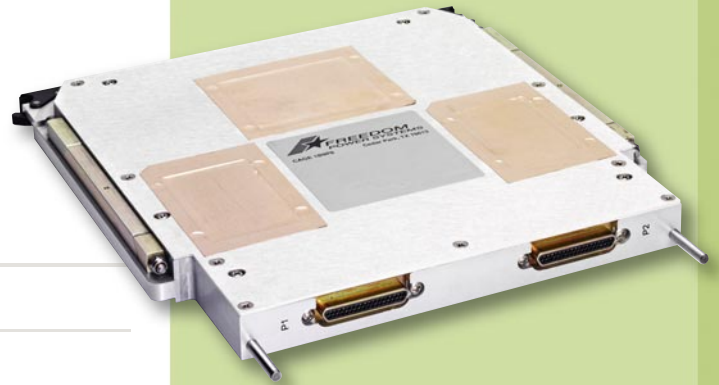


This 830 Watt ruggedized 19" rack mount power supply offers two isolated outputs with total power of 830 Watts.

Aerospace & Defense

SEM-E 5/7/8 Output DC-DC 50-250 W

INPUT	28 Vdc (MIL-STD-704E/F)
OUTPUT	<ul style="list-style-type: none">• 5 Outputs, 130 W (200 W surge) (5.0 V, 8.0 V, ± 15 V, 24 V)• 7 Outputs, 100 W (250 W surge) (1.5 V, -2.0 V, 3.3 V, 5.0 V, -5.2 V, ± 15 V)• 8 Outputs, 95 W (200 W surge) (1.5 V, 3.3 V, 5.0 V, ± 8.0 V, ± 15 V, 24 V)
WEIGHT	< 1.75 lbs.
DIMENSIONS	6.75" x 6.375" x 0.58"
OPERATING TEMP.	-40°C to +85°C
COOLING	100% Conduction cooled via rail wedgelocks
COMPLIANCE	<ul style="list-style-type: none">• MIL-STD-461 (EMI): CE101, CE102, CS101, CS114, CS115, CS116• Altitudes to 70,000 feet per 4.6.2.2 MIL-HDBK-5400• Functional Shock per 4.6.2.6.1 MIL-HDBK-5400 (20g Peak, 11ms duration)
OTHER	<ul style="list-style-type: none">• Optional 105°C vacuum / Low outgassing per MIL-HDBK-454• Custom configurations available



Space Saving 0.58" SEM-E design offers 5/7/8 outputs. These rugged SEM-E DC-DC supplies offer exceptional power density, efficiency and versatility.

Aerospace & Defense

Airborne Communications

INPUT	115 Vac, Three-phase
OUTPUT	Six Banks with four outputs per bank: 5.25 V; 12.3 V; 12.8 / 15.3 V Switchable; 12.8 / 15.3 V Switchable
TOTAL POWER	3,250 Watts
WEIGHT	85 lbs.
DIMENSIONS	17" x 12.5" x 22"
OPERATING TEMP.	-20°C to + 60°C
COOLING	Internal fans
COMPLIANCE	<ul style="list-style-type: none">• MIL-STD-704 (aircraft)• MIL-STD-461 (EMI)
OTHER	<ul style="list-style-type: none">• Status monitor• Front panel LED status display• RS-232 monitor output• Individual bank control• Fully redundant



Fully redundant 24 channel Airborne power system with microcontroller status and control. Organized as six banks of fully redundant converters running from a common redundant rectifier system. Individual ON/OFF control of each bank. RS-232 and front panel status monitors. Switch selectable output voltage between two operating points for 12 of the 24 total outputs.

Industrial

Sealed Lead-Acid Battery Charger

INPUT	18 – 36 Vdc
OUTPUT	24 Vdc Three-state lead-acid battery charger
TOTAL POWER	300 Watts or 600 Watts
WEIGHT	11 lbs.
DIMENSIONS	9.5" x 7.0" x 5.25"
OPERATING TEMP.	-55°C to +55°C Ambient
COOLING	Convection
COMPLIANCE	<ul style="list-style-type: none">• Water tight NEMA Class 4• MIL-STD-461 (EMI)
OTHER	Three separate charging states: <ul style="list-style-type: none">• High current bulk-charge state• Controlled over-charge• Precision float-charge



Ruggedized water tight battery charger system designed for Military vehicle applications. Full three-state battery charger tailored for lead-acid battery technology with shorted cell detection and precision float state charging.