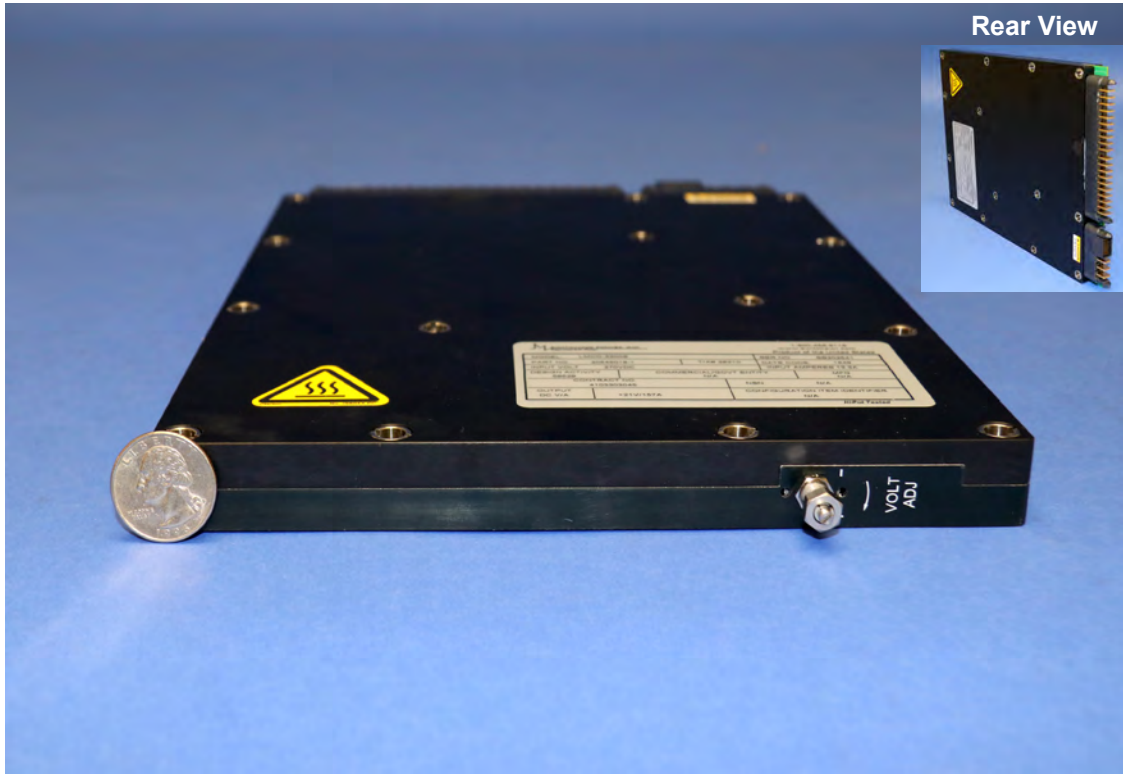


CCX-4000S-270-28V

4000 Watts

Conduction Cooled

Designed for High Performance Military Applications



KEY FEATURES:

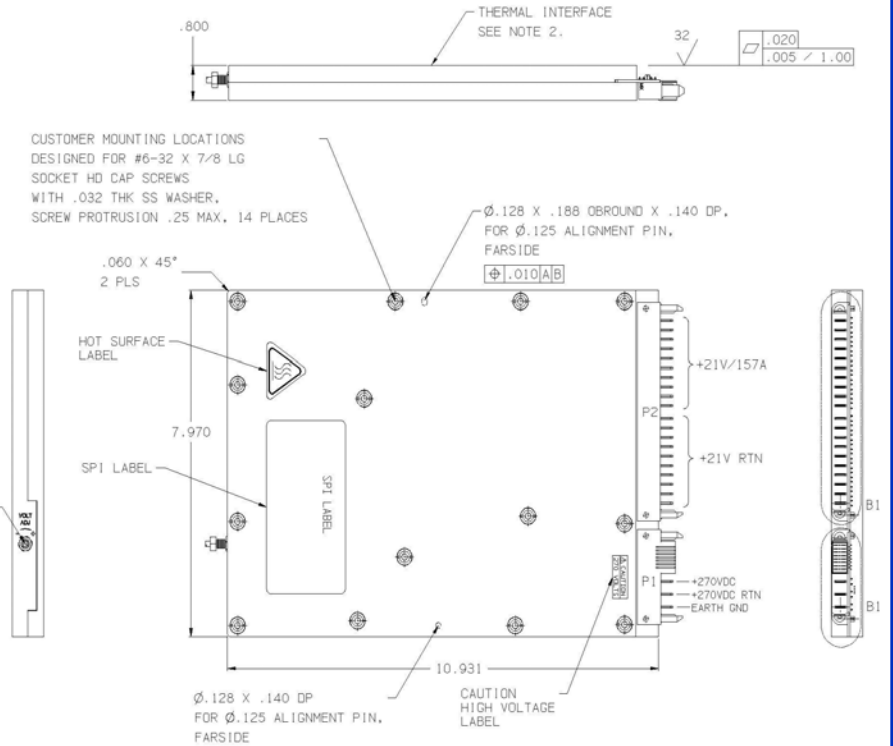
- 4000 Watts in an 11.545" x 7.970" x 0.800" Package, 54W/in³
- 270Vdc Input per Mil-Std-704 Versions E & F
- Output Rated +28V/143A
- Custom Input/Output Configurations Available
- Output Ripple & Noise Less Than 28mV pk-pk (<0.1%)
- Output Voltage Adjustable $\pm 2\%$
- Designed for Military Pulse Load Transmit Radar Application
- Ruggedized Mechanical Design
- One Year Warranty
- Greater than 150,000 Hrs MTBF
- Proudly Made in U.S.A.

CCX-4000S-270-28V

TABLE -A- P1 SAMTEC P/N ET60T-A03-S-08-000-S-R1-S	
PIN NO.	DESCRIPTION
B1	EARTH_GND
B2	+270VDC RTN
B3	+270VDC
SA1	IN_24Vref_Rtn
SA2	AGND_Ref
SA3	SPARE
SA4	VDD_St_Good2.N
SA5	SPARE
SA6	VDD_OV_Rst.C
SA7	VDD_En2_C
SA8	Remote_Sense.N
SB1	SPARE
SB2	IDD_Ref_Vout
SB3	SPARE
SB4	VDD_Res_StGd2.P
SB5	SPARE
SB6	VDD_Res_Ov_Rst.P
SB7	VDD_Res_En2.P
SB8	SPARE
SC1	SPARE
SC2	SPARE
SC3	SPARE
SC4	SPARE
SC5	SPARE
SC6	SPARE
SC7	SPARE
SC8	SPARE
SD1	SPARE
SD2	AGND_Ref
SD3	HP_Spore.N
SD4	VDD_St_Good1.N
SD5	VDD_Flt_OV.N
SD6	SPARE
SD7	VDD_En1_C
SD8	SPARE
SE1	IN_24Vref_Iso
SE2	VDD_Ref_Vout
SE3	HP_Res_Spr.P
SE4	VDD_Res_StGd1.P
SE5	VDD_Res_OV.P
SE6	SPARE
SE7	VDD_Res_En1.P
SE8	Remote_Sense.P

TABLE -B- P2 SAMTEC P/N ET60T-D10-0-00-D10-S-R1-S	
PIN NO.	DESCRIPTION
B1	+21V RTN
B2	+21V RTN
B3	+21V RTN
B4	+21V RTN
B5	+21V RTN
B6	+21V RTN
B7	+21V RTN
B8	+21V RTN
B9	+21V RTN
B10	+21V RTN
B11	+21V/157A
B12	+21V/157A
B13	+21V/157A
B14	+21V/157A
B15	+21V/157A
B16	+21V/157A
B17	+21V/157A
B18	+21V/157A
B19	+21V/157A
B20	+21V/157A

OUTPUT VOLTAGE
ADJUST POTENTIOMETER
(LOCKING)



Nominal Input Voltage	270 Vdc, 16.1A.
Operational Input Voltage Range	240-290 Vdc, with input transient protection to 200 & 370 Vdc for 50 ms exceeding limits per MIL-STD-704E/F.
Inrush Current	Less than 50 msec, 20 amperes @ 270 Vdc.
Reverse Input Protection	Reverse input protection to rated DC voltage.
Fusing	30 Ampere, 500 Vdc, Fast Acting fuse.
Hold up time	1msec minimum after loss of DC input at 3500W load.
Efficiency	Minimum 92% at full load through operational input voltage range.
Turn on time	1 sec max. from power up.
Line and Load Regulation	±1% over DC input range and 0 to 100% load change.
Minimum Load	No minimum load required.
Ripple & Noise	Through 20MHz less than 0.1% pk-pk.
Transient Response	Output maximum excursion of ± 5% for 25% load step. Recovery less than 250 µsec.
Overshoot	No turn-on or turn-off overshoot.
Output Isolation	Isolated from chassis ground, 100 Vdc.
Input/Output Isolation	1500 Vdc from input to both chassis/outputs. SELV construction.
Reverse Output Voltage Protection	Protected against reverse voltage to supply current rating.
Overvoltage Protection	Shutdown at 115% ±5% of nominal Vout. Recycle input power to reset.
Overtemperature Protection	Unit shuts down if overheated. Recycle input.
Current Limiting	Output protected with current limit. Automatic recovery when overload or short is removed.
Paralleling	Two or more supplies can be operated in parallel and will share load current within ±10% of each other.

Remote Sense	Compensates for up to 0.3V total distribution voltage drop on the +28V output.
Signals	All signals are isolated from the 28V bus. Consult factory for more details.
Cooling	Conduction cooled.
Operating Temperature	-40°C to +70°C at thermal interface.
Stability	28V output 0.1% for 8 hrs. after 30 minute warm-up.
Storage Temperature	-40°C to 105°C.
Connectors	Samtec EXTreme Ten60 Power series.
Size	11.545" x 7.970" x 0.800
Weight:	5 lbs. max.

Environmental Design to Meet:

- High Temperature per MIL-STD-810G, Method 501.6 Procedure I & II
- Low Temperature per MIL-STD-810G, Method 502.6 Procedure I & II
- Humidity per MIL-STD-810G, Method 507.6 Procedure I & II
- Pressure Altitude per MIL-STD-810G, Method 500.6 Procedure I up to 40,000ft Non-operational
- Pressure Altitude per MIL-STD-810G, Method 500.6 Procedure I up to 10,000ft operational
- Fungus per MIL-STD-810G, Method 508.7
- Sand & Dust per MIL-STD-810G, Method 510.6 Procedures I & II.
- Salt Fog per MIL-STD-810G, Method 509.6
- Vibration per MIL-STD-810G, Method 514.7 Category 24, Procedure I
- Shock per MIL-STD-810G, Method 516.7

EMI Designed to Meet (MIL-STD-461E):

- RS103 (Army Ground, 30MHz - 18GHz)
- RE102 & CE102 (with SPI's external filter or equivalent)
- CS101
- CS114 (Army Ground)
- CS115
- CS116 (10 Amps)

Common Options	Special input/output configurations. Consult factory for more details on a tailored solution which meets your requirements.
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