SNS-GTR-1000S-28

1000 Watts
Conduction Cooled
Operational Baseplate Temperature from -40°C to +100°C

KEY FEATURES:

- Compact Design (3.00" x 6.00" x 10.00")
- Single Phase, 120V/60Hz Input with Active Power Factor Correction (>0.95 Lagging)
- Meets MIL-STD-704F for the Voltage Range Specified
- Output; +28V/36A
- Custom Input/Output Configurations Available
- N+1 Redundant with Internal Oring FET's
- "Zero Wire" Active Current Share Circuit
- Specifically Designed for Military Mobile Applications
- Ruggedized Mechanical Design
- One Year Warranty
- Greater than 200,000 Hrs MTBF
- Proudly Made in U.S.A.

Switching Power, Inc.
Regulated Power

3601 Veterans Highway
Ronkonkoma, New York 11779
Tel: 631-981-7231 Fax: 631-981-7266

visit us at:
switchpwr.com

AS9100 ISO 9001 REGISTERED

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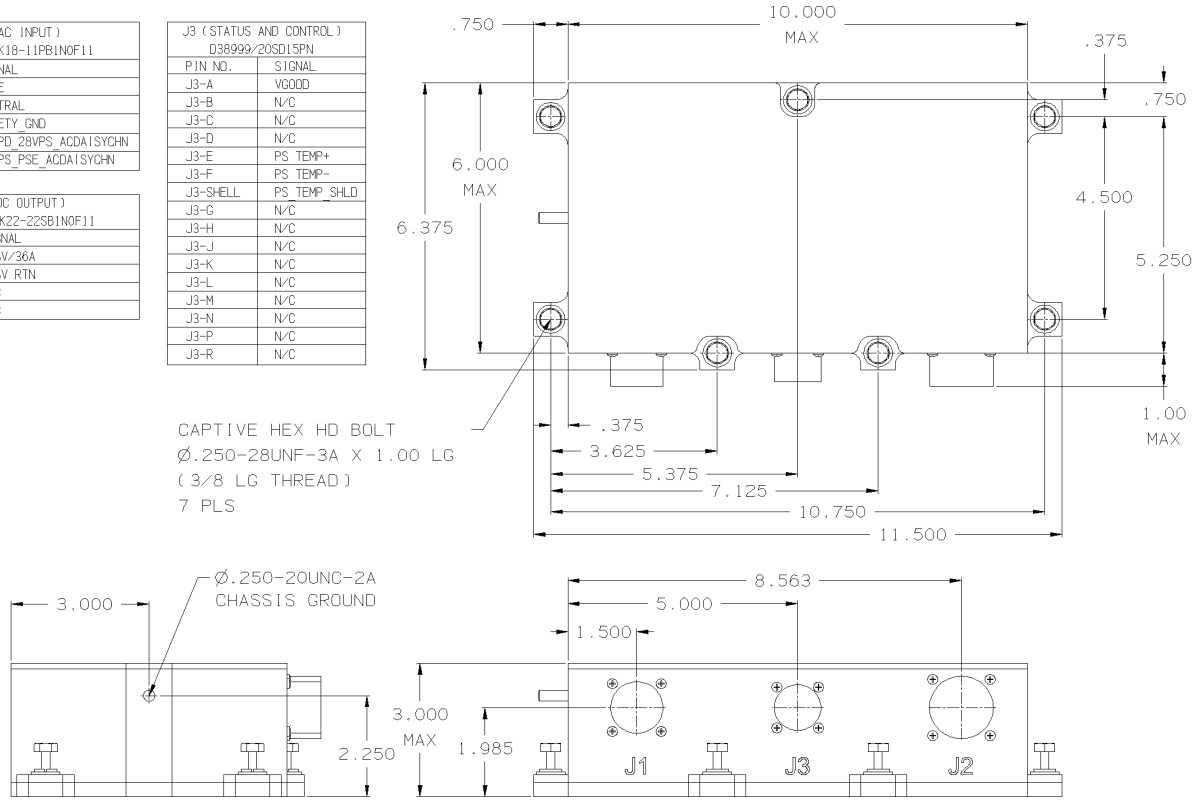
J1 (AC INPUT) MT41030AFK18-11PBINOF11	
PIN NO.	SIGNAL
J1-A	LINE
J1-B	NEUTRAL
J1-C	SAFETY GND
J1-D	SEDPD 28VPS ACDAISYCHN
J1-E	28VPS PSE ACDAISYCHN

J2 (DC OUTPUT) MT41030AFK22-22SBINOF11	
PIN NO.	SIGNAL
J2-A	+28V/36A
J2-B	+28V RTN
J2-C	N/C
J2-D	N/C

J3 (STATUS AND CONTROL) D38999/20SD15PN	
PIN NO.	SIGNAL
J3-A	VGOOD
J3-B	N/C
J3-C	N/C
J3-D	N/C
J3-E	PS TEMP+
J3-F	PS TEMP-
J3-SHELL	PS TEMP SHLD
J3-G	N/C
J3-H	N/C
J3-J	N/C
J3-K	N/C
J3-L	N/C
J3-M	N/C
J3-N	N/C
J3-P	N/C
J3-R	N/C



Nominal Input Voltage Frequency	120Vac, 10A nominal. 60Hz per MIL-STD-704F.
Operational Input Voltage Range	±10% and transients up to 285Vac. Input Power Factor exceeding 0.95 at full load.
Inrush Current	Less than 25A peak @ 132Vac.
Fusing	20A/250Vac, Very fast acting. Internal ceramic body fuse.
Hold up time	30msec minimum after loss of AC Input at full load
Efficiency	89% typical.
Turn on time	2 sec max. from power up.
Line and Load Regulation	±1% over AC 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 150 µsec.
Overshoot	No turn-on or turn-off overshoot.
Output Isolation	Isolated from chassis ground, 200Vdc.
Input/Output Isolation	1500 Vdc from input to both chassis/outputs. SELV construction.
Reverse Voltage	Protected against reverse voltage to supply current rating.
Overvoltage Protection	Shutdown at 130% of nominal Vout. Recycle input power to reset.
Overtemperature Protection	Unit shuts down if overheated.
Leakage Current	2mA max at 132Vac.
Current Limiting	Output is 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.
Output Setting	28V ±0.01V at half load.
Power Good Signal	28Vdc interface indicating the output voltage is within ±5% of nominal.
Thermal Monitor	Provides a temperature status interface to allow for measurement of the baseplate temperature.
Cooling	Baseplate cooled with a temp. range of -40° C to +100° C
Operating Temp.	-40° C to +61° C
Non-Operating Temp.	-40° C to +105° C
Temperature Stability	Less than .02%/deg C over the operating temperature range.
I/O Connectors	MIL-DTL-5051 & MIL-DTL-38999 style, nickel plated, stainless steel connectors.
Size/Weight	3.00" x 6.00" x 10.00" at <10 lbs max.

Environmental Design to Meet:

- High Temperature per MIL-STD-810G, Method 501.4 Procedure I & II
- Low Temperature per MIL-STD-810G, Method 502.4 Procedure I & II
- Humidity per MIL-STD-810G, Method 507.4
- Pressure Altitude per MIL-STD-810G, Method 500.4 Procedure I up to 40,000ft Non-operational
- Pressure Altitude per MIL-STD-810G, Method 500.4 Procedure I up to 10,000ft operational
- Fungus per MIL-STD-810G, Method 508.4
- Sand & Dust per MIL-STD-810G, Method510.4 Procedures I, II & III.
- Salt Fog per MIL-STD-810G, Method 509.4
- Vibration per MIL-STD-810G, Method 514.5 Category 24, Procedure I
- Shock per MIL-STD-810G, Method 516.5 Procedure I

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

- RS103 (Army Ground, 30MHz - 18GHz)
- RE102 & CE102 (with external filter)
- 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 require ments.