

# HS-750DC

## HOT SWAP - 750 WATTS

-40 to -75VDC INPUT - ONE TO FOUR OUTPUTS

Dual High Current Outputs, Standard Models of 5Vdc/120Amps and 3.3Vdc/20Amps



### FEATURES:

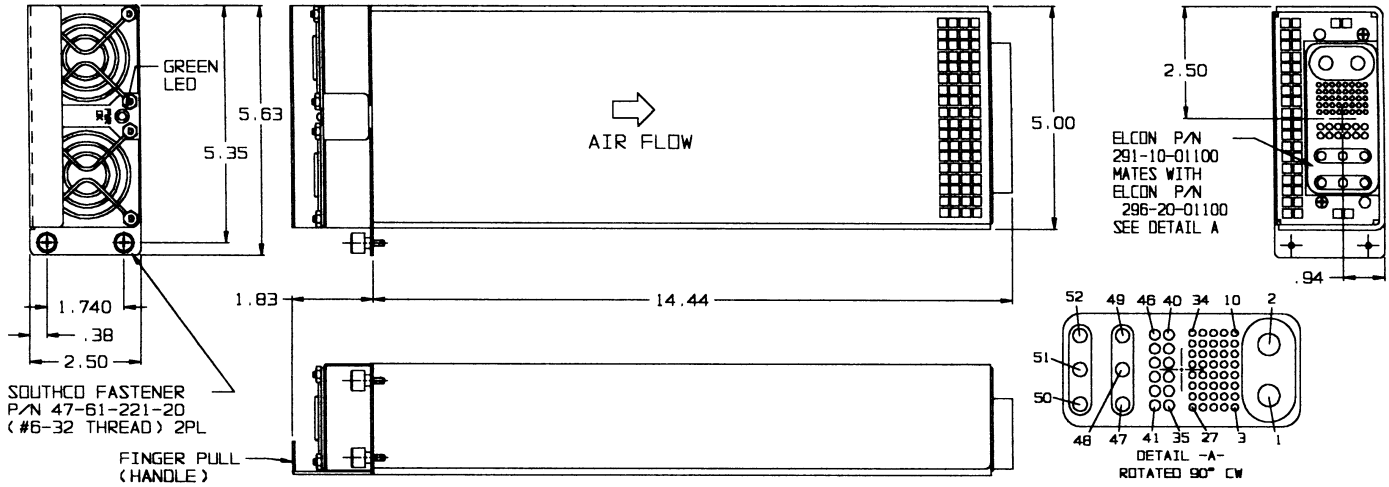
- Size: 2.5" x 5" x 15.5" in Size
- N+1 Redundant and Hot Swap (ELCON Connector)
- One to Four outputs with Oring Diodes
- Meets EN55022 Level A / FCC Class A
- No Additional Cooling Required up to 50 °C
- 'Zero' Wire Current Share
- Remote Sense On V1 / V2 Outputs
- V4 Output Floating
- Up to 20A Capability on V2
- Greater than 90,000 Hrs MTBF (500,000 Hrs in Redundancy)
- [See model HS-750P for AC Input Equivalent](#)



	OUTPUT VOLTAGE (VDC)	OUTPUT AMPERES (MAX)	OUTPUT POWER (WATTS)
V1	2 to 48	120	750
V2	2 to 48	20	180
V3	3 to 24	10	120
V4	3 to 24	5	96

# HS-750DC SERIES 750 WATT COMPACT SIZE

\* IN PDF FORMAT, PRINT OR ZOOM TO SEE DRAWING



CONNECTOR DESCRIPTION

PIN NO.	SIGNAL	PART#	PIN NO.	SIGNAL	PART#
1	+5V RTN	711-07-02107 (#0M, SILVER)	34	RTN (PRESENT)	701-14-02109 (#20M, GOLD)
2	+5V/120A	711-07-02107 (#0M, SILVER)	35-36	+12V/5A (+V4)	701-13-02107 (#16M, SILVER)
3-9	N/C	N/A	37-38	-12V/5A (-V4)	701-13-02107 (#16M, SILVER)
10	+5V RTN SENSE	701-14-02109 (#20M, GOLD)	39-40	+3.3/20A	701-13-02107 (#16M, SILVER)
11	+5V SENSE	701-14-02109 (#20M, GOLD)	41-42	+3.3V RTN	701-13-02107 (#16M, SILVER)
12	+3.3V RTN SENSE	701-14-02109 (#20M, GOLD)	43-44	-12V/10A	701-13-02107 (#16M, SILVER)
13	+3.3V SENSE	701-14-02109 (#20M, GOLD)	45-46	-12V RTN	701-13-02107 (#16M, SILVER)
14-30	N/C	N/A	47-48	0 VDC	701-12-02109 (#12M, GOLD)
31	INHIBIT	701-14-02109 (#20M, GOLD)	49	N/C	N/A
32	PW_OK	701-14-02109 (#20M, GOLD)	50-51	-48VDC	701-12-02109 (#12M, GOLD)
33	RTN	701-14-02109 (#20M, GOLD)	52	SAFETY GROUND (CASE)	701-15-02109 (#12M, GOLD PREMATE)

NOTES: 1. ALL OUTPUTS CONTAIN DRING DIODES FOR N+1 REDUNDANCY. A "DROOP" CURRENT SHARE SCHEME ALLOWS FOR GREATER THAN A 60/40 LOAD SHARE ON THE +5V OUTPUT WHEN TWO OR MORE SUPPLIES ARE CONNECTED IN PARALLEL. 2. AN OUTPUT LED IS CONTAINED DRIVEN ON/OFF BY PW\_OK SIGNAL. 3. CONSULT FACTORY FOR FURTHER ELECTRICAL SPECIFICATIONS.

<b>Nominal Input Voltage</b>	-48VDC	<b>Overvoltage Protection</b>	V1 Voltage clamp. Factory set 20% to 30% above nominal. V2-V4 Fail-Safe design.
<b>Operational Input Voltage Range</b>	-40 to -75 VDC Transients to 140V for 2 Sec.	<b>Overtemperature Protection</b>	Unit shuts down if overheated. Automatic recovery.
<b>Inrush Current</b>	Less than 5 msec. 60 amperes @ 48 VDC	<b>Cooling</b>	Integral fans up to 50°C Ambient full power.
<b>Fusing</b>	50 Ampere, 125 VDC, Internal ceramic body fuse.	<b>Input/Output Isolation</b>	2828 VDC, SELV construction.
<b>Hold up time</b>	5msec minimum after loss of DC Input at full load and nominal input	<b>Remote Sense (V1 &amp; V2 output)</b>	Up to 0.5 volts total in load.
<b>Efficiency</b>	60% typical	<b>Inhibit</b>	Open to Run, Contact closure to return , turns off all outputs.
<b>Turn on time</b>	Less than 1 sec.	<b>PW_OK</b>	The PW_OK signal is a normal Logic "1" which switches states whenever the +5V, or +3.3V outputs go 5% below output specification.
<b>Load Regulation</b>	4% for 0% to 100% load change on V1 2% for 0% to 100% load change on V2 3% for 0% to 100% load change on V3 3% for 0% to 100% load change on V4 5% min. load required on V1 for max load reg. on outputs V2 to V4.	<b>Operating Temperature</b>	-20°C to 50°C full output
<b>Line Regulation</b>	± 0.1% over operating line range, all outputs.	<b>Stability</b>	All outputs 0.5% for 8 hrs. after 1 hour warm-up.
<b>Ripple &amp; Noise</b>	1% PARD or 100mv which ever is greater. 20MHz bandwidth.	<b>Humidity</b>	Up to 95% non-condensing.
<b>Transient Response</b>	Output maximum excursion of ± 5% for 25% load step. Recovery less than 500 usec.	<b>Size</b>	2.5" x 5" x 15.5" <b>Weight:</b> 9 lbs.
<b>Short Circuit and Overload Protection</b>	All outputs are protected from short circuit and overload. Automatic recovery.	<b>EMI</b>	Meets FCC Class A and EN55022 Level A
<b>Overshoot</b>	No turn-on or turn-off overshoot.	<b>SAFETY</b>	UL 1950 / CSA C22.2 NO. 950-95, EN 60950

SERIES BREAKDOWN:      HS-750X1-DC  
where X1= S for Single output, D for Dual output, T for Triple output or Q for Quad output

REV: -