



Description:

A parallel design shelf with two 48VDC input supplies (SNP-430C) supports up to 5 outputs for the telecom and Sub-system applications.

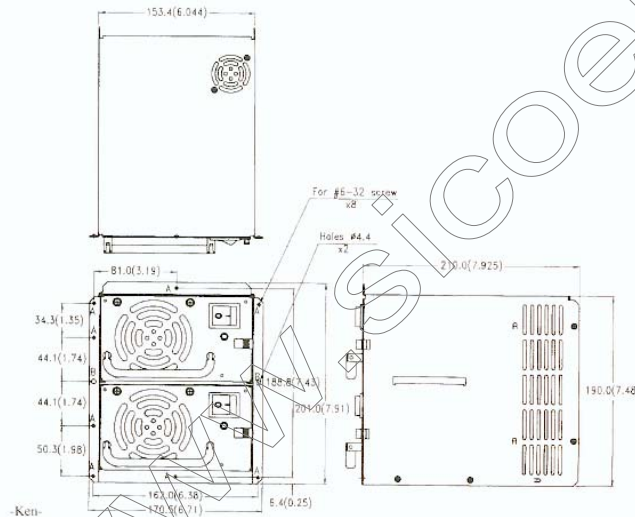
General Specifications:

Input voltage -40 to -60VDC
 Input current 9A at -48VDC
 Inrush current less than 10A at -48VDC, cold start 25°C
 Outputs see output table
 Efficiency 70% typical
 Input protection internal diode against inverse
 Over current protection auto recovery
 Short circuit protection..... auto recovery

Over voltage protection auto recovery
 Redundancy O-ring built in the shelf
 Power good normally high
 Operating temperature 0°C to 50°C
 Cooling forced air convection
 Storage temperature -40°C to +75°C
 EMI FCC 20780 "B"
 Safety UL 1950

CSA 22.2 No. 950-95
 TUV EN60950

Mechanical Specifications:



Notes:

- Dimensions shown in mm as left. Tolerance: ±0.8mm.
- Size: 170.5 x 210 x 201 (mm)
- Connectors:
 For power module: AMP 211149-1 or equivalent
 DC input: P1 AMP 640901-2 or equivalent
 Output: P4,5,6 AMP 640506-3 or equivalent
 P7 Molex 39-28-1183 or equivalent
- DC output pin assignment:

MODULE A,B: Pin	1	P.G.	Pin 15	N/C
	2~6	+5V	16,17	DC GND
	7	+12V	18,19	N/C
	8	FAN sense	20,21	DC GND
	9	-12V	22	N/C
	10	-5V	23	Chassis GND
	11	N/C	24	DC -48V
	12,13	DC GND	25	-48V Return
	14	+5V sense		



4. DC output pin assignment:

P1:	Pin	1	DC 0V	Pin	4	DC -48V	P5:	Pin	1~12	+3.3V	Pin	17~26	+12V
		2	DC -48V		5	DC 0V			13~15	+12V		27~36	GND
		3	Earth						16	+3.3V			
P4:	Pin	1	+5V sense	Pin	9~12	+5V	P6:	Pin	1~36	GND			
		2	N/C		13	-12V							
		3	+3.3V sense		14~16	+5V	P7:	Pin	1	Alarm +12V	Pin	7,8	+5V
		4	-5V		17	-12V			2	Reset +12V		9	N/C
		5	P.G.		18~34	+5V			3	Module A on line +5V		10~15	GND
		6,7	+5V		35	Remote ON			4	Module B on line +5V		16	Module A Fan sense
		8	-5V		36	+5Vsb			5	Module A FAIL TTL+		17	Module B Fan sense
									6	Module B FAIL TTL+		18	N/C

Output Specifications:

MODEL NO.	OUTPUT RAIL	LOAD			VOLTAGE ACCURACY	RIPPLE NOISE	LINE REG.	LOAD REG.
		MIN.	RATED	MAX.				
DTB-R30C-D	+5V	1A	42A		+5.0V~+5.2V	50mVpp	±1%	±4%
	+12V	0A	6A	9A	+11.4V~+12.6V	120mVpp	±1%	±5%
	-12V	0A	2A		-11.3V~-12.6V	120mVpp	±1%	±3%
	-5V	0A	1A		-4.65V~-5.25V	50mVpp	±1%	±3%
	+3.3V	0A	10A	12A	+3.25V~+3.35V	50mVpp	±1%	±3%

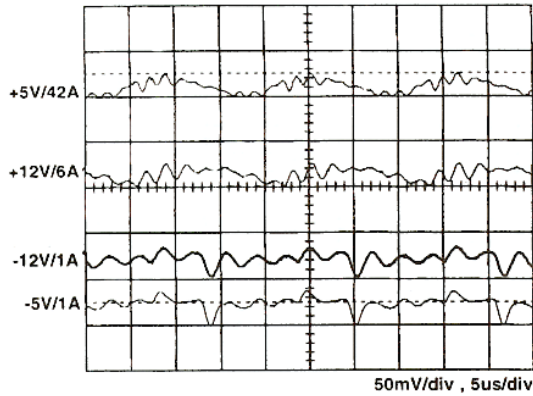
* 210W for +5V & +3.3V combined output.

Note:

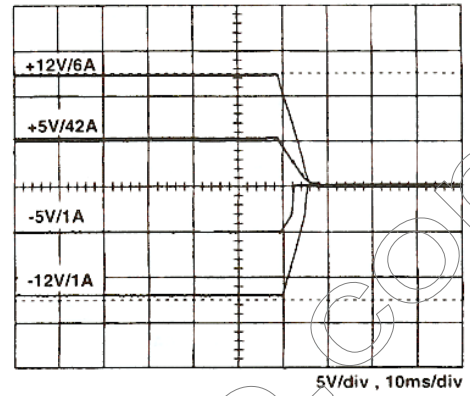
1. The total continuous power should be kept within 300W.
2. At factory, in 60% rated load condition, each output is checked to be within voltage accuracy.
3. Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.
4. Load regulation is defined by changing ±40% of measured output load from 60% rated load at another output set to 60% rated load.
5. Ripple & noise is measured by using 15MHz bandwidth limited oscilloscope and terminated each output with a 0.47uF capacitor at rated load and nominal line.
6. Hold up time is measured from the end of the last charging pulse to the time which the +5V output drops down to +4.75V at rated load and nominal line.
7. Efficiency is measured at rated load and nominal line.

Performance:

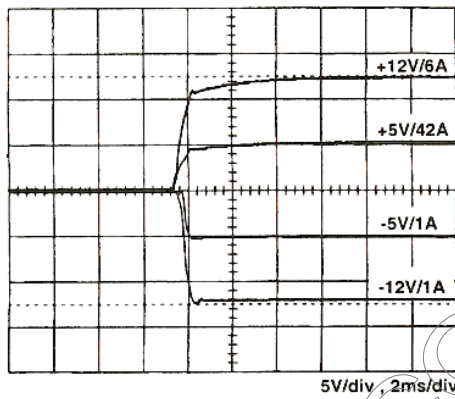
1. Switching frequency ripple



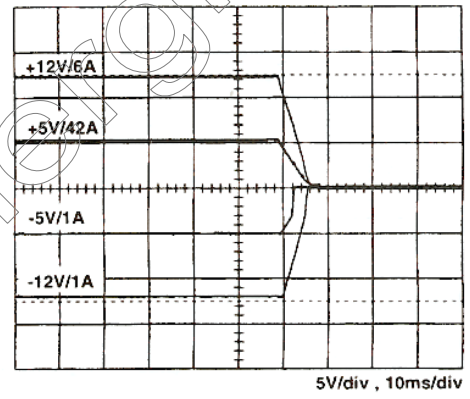
2. Line frequency ripple



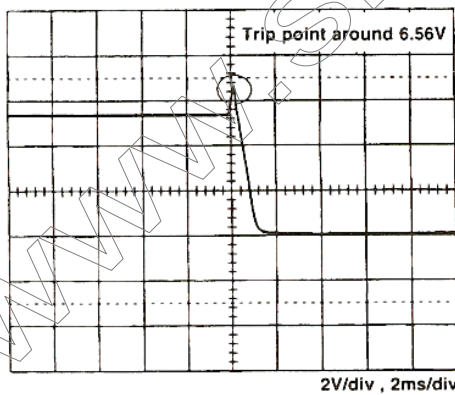
3. Output turn on wave form



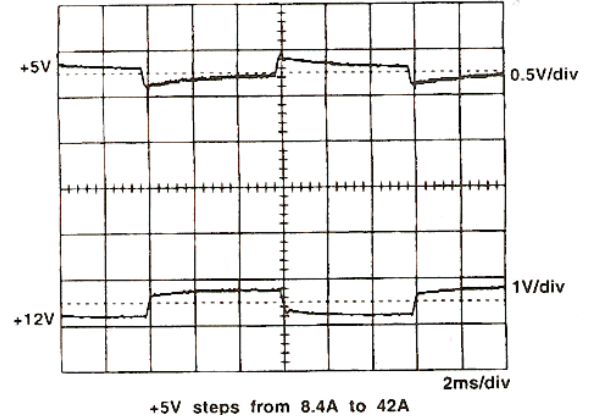
4. Output turn off wave form



5. Over voltage protection

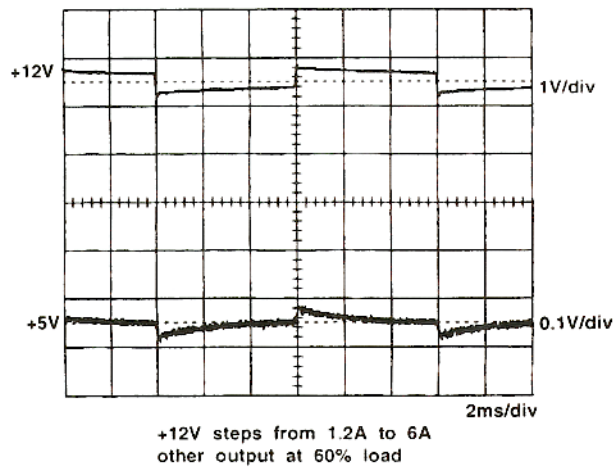


6. +5V step response

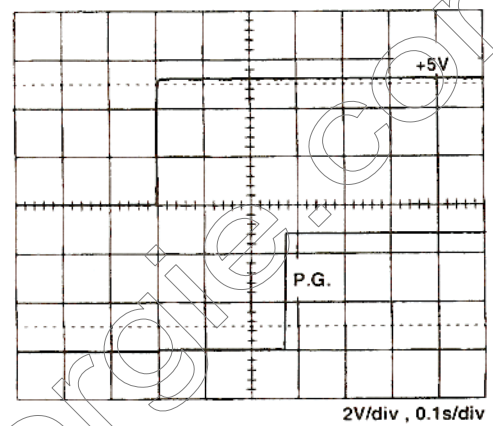




7. +12V step response



8. Power good signal



9. Power fail signal

