

**FEATURES:**

- Universal input voltage
- Triple isolated outputs
- PCB mounting
- Short circuit protected
- Overpower protected
- No minimum load required
- 5 year warranty

**SPECIFICATIONS**

AC Input Range	90 to 280V RMS, 45 to 400 Hz					
DC Input Voltage Range	100 to 390V DC					
Total Output Power	28 Watts full performance, 40 Watts Maximum - see Notes 1, 5					
Input Fuse	1A fast-blow fuse internal					
Input Current	Less than 0.7A RMS at 90V RMS input and full load					
Inrush Current	10A max. peak for 264Vac or 375Vdc					
Efficiency	> 80% at maximum load and any input voltage					
Temperature Coefficient	Any change in output voltage due to warm-up drift and operation temp does not exceed regulation limits below.					
Step Load Response	For up to 50% step Load on any output(s), effect on the 5V output is: <150mV peak or dip, with 400μS settling time.					
Short Circuit Protection	Short circuit on any output causes no damage to the power supply.					
Over power protection	Total power limit 100% to 130% of rating with shutdown, automatic re-start on removal of overload. (28W at 90V AC input, 44W at 205V AC input)					
No Load	No minimum load is required on any output.					
Operating Temperature	0°C to 60°C, Relative Humidity: 8% to 80% (Natural convection, full load)					
Shipping and Storage	-40°C to 80°C, Relative Humidity: 5% to 95%					
Safety Standard	IEC 950, AS 3260, UL 1950, CSA 22.2 No. 950					
EMC Standard	CISPR 22 Class A, AS 3548 Class A, FCC Class A, VDE Class A					
TERMINATIONS Suffix "S"	Screw terminals with wire protecting plates for input and output					
TERMINATIONS Suffix "H"	8 pin "Molex" Headers for input & output connections. Pin 7 is linked to pin 5 and pin 8 is linked to pin 6 to give extra contacts for the 5V output.					
		X25T1212S and X25T1212H		X25T1515S and X25T1515H		
Voltage	5V	12V	12V	15V	15V	Note 4
Maximum Load	4.0A	0.7A	0.7A	0.7A	0.7A	Note 1
Surge Load	4.0A	1.0A	1.0A	1.0A	1.0A	Note 1
Min Load regulated	0.5A	0.1A	0.1A	0.1A	0.1A	Note 3
Min Load	0A	0 A	0A	0 A	0A	
Ripple & Noise p-p	50mv	50mv	50mv	50mv	50mv	Note 2
Total Regulation	-1%, +1%	-6%, +10%	-6% +10%	-6%, +10%	-6% +10%	

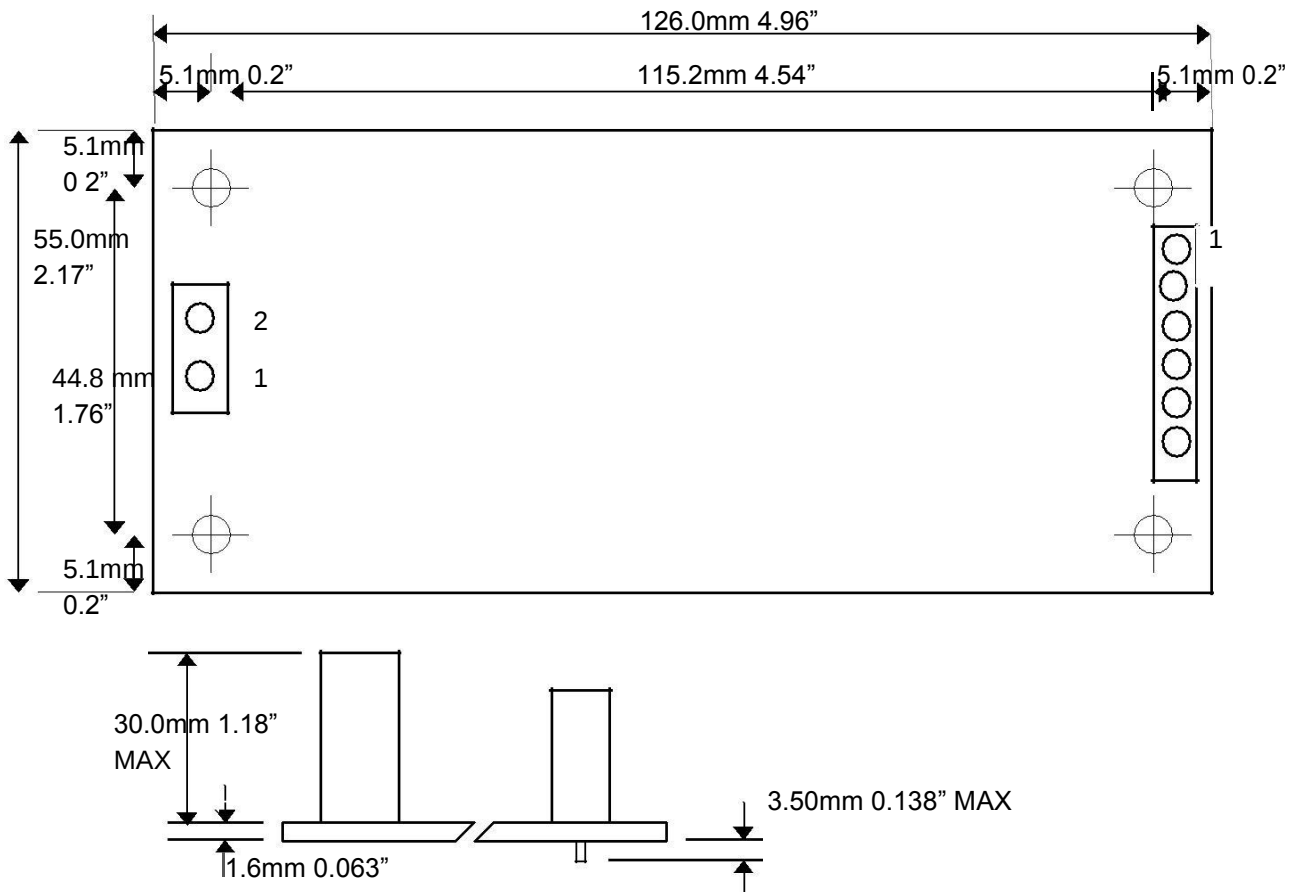
NOTES to table above:

1. The maximum loads listed are the maximum continuous loads on each output. However, the total load should not exceed 40W.
2. The ripple and noise voltage of the output is measured at the output connectors. This measurement should be made using a differential technique having a common mode rejection ratio (CMRR) greater than 10,000 to 1, from 10Hz to 100KHz bandwidth. Outputs to be bypassed at the connector with a 0.1uF ceramic dielectric disk capacitor to simulate system loading.



3. "Minimum Load Regulated" is the minimum load for which the outputs remain within the "Total Regulation" limits tabulated for all input voltages within the input range and all mixes of load on other outputs within limits of "Minimum Load Regulated", "Surge Load", and maximum total power.
4. Adjustment: All voltages are adjustable $\pm 10\%$ (together) with one secondary side control.
5. For 195V to 280V RMS (260 to 390V DC) input, total power available is 40W. At 90V RMS (100V DC) input, total output power is limited to 28W - automatically.

MECHANICAL SPECIFICATIONS



Tolerance: $\pm 0.1\text{mm} \pm 0.004"$

INPUT CONNECTOR (J1)			OUTPUT CONNECTOR (J2)		
"S"	"H"	Connection	"S"	"H"	Connection
PIN 1	PIN 1	NEGATIVE (-)	PIN 1	PIN 1	+12V/+15V (O/P-1)
			PIN 2	PIN 2	RETURN (O/P-1)
			PIN 3	PIN 3	+12V/+15V (O/P-2)
PIN 2	PIN 2	POSITIVE (+)	PIN 4	PIN 4	RETURN (O/P-2)
			PIN 5	PIN 5,7	+5V (O/P-3)
			PIN 6	PIN 6,8	RETURN (O/P-3)



OUTPUT CONNECTIONS FOR VARIOUS APPLICATIONS

The Maximum load currents listed in the following tables are the maximum for each output. The peak total load should not exceed the total power rating (see above). That is, the continuous load should not exceed the tabled value AND the peak power should not exceed the total power rating.

Notes:

All voltages are adjustable (together) with one secondary side control.

Pin numbers given are for "S" models, see table above for header pin numbers.

1. Total available power may be less than sum of VA products.

2. Sum of continuous loads not to exceed 1A.

3. Sum of continuous loads not to exceed 2A.

4. Sum of continuous loads not to exceed 4A.

5. Sum of continuous loads except 5V not to exceed 1A.

6. Minimum 5V load must always exceed maximum sum of the other loads.

7. Minimum 5V load must always exceed maximum other load.

8. Minimum 17/20V load must always exceed maximum 7/10V load.

9. Minimum 5V load must always exceed maximum 7/10V load.

10. Minimum sum of 5V and 17/20V loads must exceed actual 7/10V load.

11. Sum of continuous 5V and 17/20V loads not to exceed 4A.

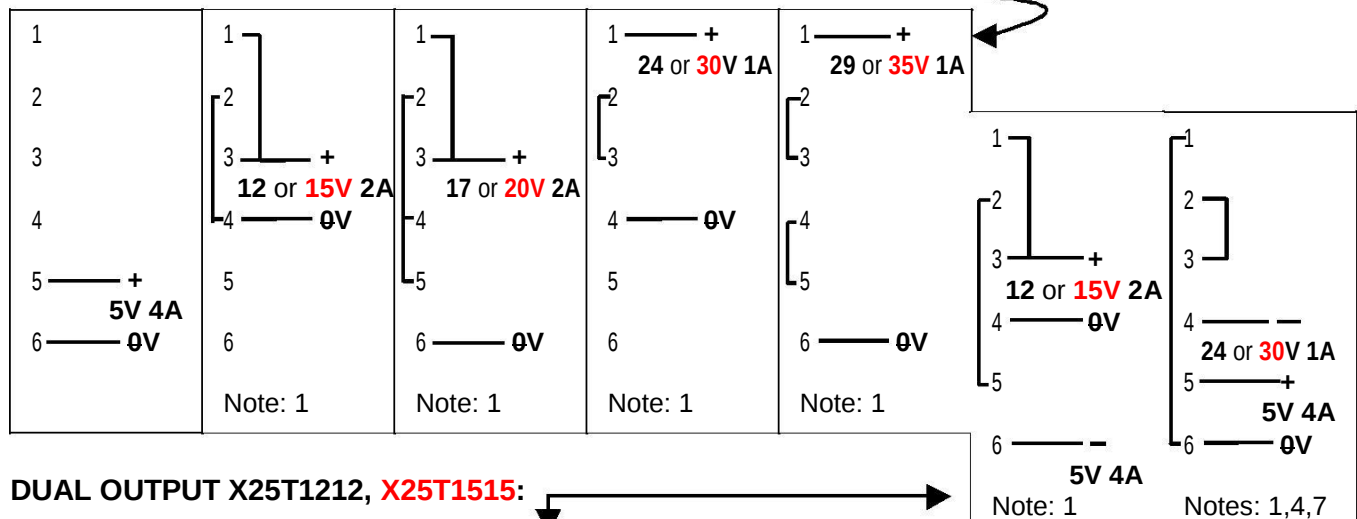
CAUTION: Where any of notes 6 -10 inclusive apply, an overload on the output can possibly damage the 5V rectifier through over voltage applied from the other output.

TRIPLE OUTPUT X25T1212, X25T1515:

1 ——— + 29 or 35V 1A 2 ——— + 17 or 20V 1A 3 ——— + 12 or 15V 1A 4 ——— 0V 5 ——— 6 ——— Notes: 1,2	1 ——— + 29 or 35V 1A 2 ——— 3 ——— + 17 or 20V 1A 4 ——— 5 ——— + 5V 4A 6 ——— 0V Notes: 1,4,5	1 ——— + 24 or 30V 1A 2 ——— 3 ——— + 12 or 15V 1A 4 ——— 5 ——— 0V 5V 4A 6 ——— Notes: 1,5	1 ——— + 24 or 30V 1A 2 ——— 3 ——— + 12 or 15V 1A 4 ——— 5 ——— + 5V 4A 6 ——— 0V Notes: 1,5	1 ——— + 19 or 24V 1A 2 ——— 3 ——— + 7 or 12V 1A 4 ——— 5 ——— 0V 5V 4A 6 ——— Notes: 1,5,6	1 ——— + 17 or 20V 1A 2 ——— 3 ——— + 12 or 15V 1A 4 ——— 5 ——— + 5V 4A 6 ——— 0V Notes: 1,5,11	1 ——— + 17 or 20V 1A 2 ——— 3 ——— 4 ——— - 2 or 15V 1A 5 ——— + 5V 4A 6 ——— 0V Notes: 1,6,11
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1 ——— + 17 or 20V 1A 2 ——— 3 ——— 4 ——— - 7 or 12V 1A 5 ——— + 5V 4A 6 ——— 0V Notes: 1,10,11	1 ——— + 12 or 15V 1A 2 ——— 3 ——— 4 ——— - 12 or 15V 1A 5 ——— + 5V 4A 6 ——— 0V Note: 1	1 ——— + 12 or 15V 1A 2 ——— 3 ——— 4 ——— - 7 or 12V 1A 5 ——— + 5V 4A 6 ——— 0V Notes: 1,9	1 ——— + 12 or 15V 1A 2 ——— 3 ——— 4 ——— - 17 or 20V 1A 5 ——— 0V 5V 4A 6 ——— Notes: 1,11	1 ——— + 12 or 15V 1A 2 ——— 3 ——— 4 ——— - 12 or 15V 1A 5 ——— 0V 5V 4A 6 ——— Note: 1	1 ——— + 12 or 15V 1A 2 ——— 3 ——— 4 ——— + 7 or 12V 1A 5 ——— 0V 5V 4A 6 ——— Notes: 1,9	1 ——— + 7 or 12V 1A 2 ——— 3 ——— 4 ——— - 17 or 20V 1A 5 ——— 0V 5V 4A 6 ——— Notes: 1,10,11
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1 ——— + 7 or 12V 1A 2 ——— 3 ——— 4 ——— - 12 or 15V 1A 5 ——— 0V 5V 4A 6 ——— Notes: 1,9	1 ——— 2 ——— 3 ——— 4 ——— - 12 or 15V 1A 5 ——— + 5V 4A 6 ——— 0V Notes: 1,5	1 ——— 2 ——— 3 ——— 4 ——— - 12 or 15V 1A 5 ——— + 5V 4A 6 ——— 0V Notes: 1,9	1 ——— 2 ——— 3 ——— 4 ——— - 7 or 12V 1A 5 ——— + 5V 4A 6 ——— 0V Notes: 1,5,6	1 ——— 2 ——— 3 ——— 4 ——— - 17 or 20V 1A 5 ——— 0V 5V 4A 6 ——— Notes: 1,4,5	1 ——— 2 ——— 3 ——— 4 ——— - 12 or 15V 1A 5 ——— 0V 5V 4A 6 ——— Notes: 1,5	1 ——— 0V 2 ——— - 3 ——— 4 ——— - 12 or 15V 1A 5 ——— 17 or 20V 1A 6 ——— 29 or 35V 1A Notes: 1,2
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SINGLE OUTPUT X25T1212, **X25T1515**:DUAL OUTPUT X25T1212, **X25T1515**: