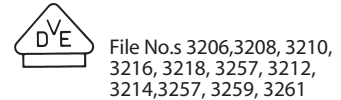
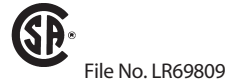




SINGLE AND MULTIPLE OUTPUT LINEAR POWER SUPPLIES



SPECIFICATIONS

AC INPUT

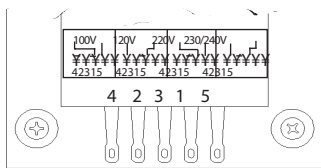
User-selectable for 100/120/220/230-240 VAC, 47-63 Hz. Factory set at 120 VAC. Tolerances are: +10% and -13% for 100, 120, 220 and 240 VAC input; +15% and -10% for 230 VAC input. Derate output current 10% for 50 Hz operation. Input must be fused. See fuse rating and jumper information table

AC INPUT FUSE RATINGS

Case Size	100 VAC	120 VAC	220 VAC	240 VAC
B	0.63A	0.5A	0.35A	0.25A
OLS-24B	1.0A	0.8A	0.5A	0.35A
C	1.6A	1.0A	0.8A	0.5A
N	2.0A	2.0A	1.0A	1.0A
D	2.5A	2.0A	1.25A	1.0A
131	3.0A	3.0A	1.6A	1.6A
AA	0.63A	0.5A	0.35A	0.25A
OLD-24AA	1.0A	0.8A	0.5A	0.35A
OLT-522AA	1.0A	0.8A	0.5A	0.35A
BB	1.6A	1.0A	0.8A	0.5A
CC	2.5A	2.0A	1.25A	1.0A

AC INPUT JUMPER INFORMATION

AC Input For use at	(47 to 63 Hz)			
	100 VAC	120 VAC	220 VAC	230/240 VAC
Jumper	1 & 3 2 & 4	1 & 3 2 & 4	1 & 3 2 & 3	1 & 3 2 & 3
Apply AC	1 & 5	4 & 1	1 & 5	4 & 1



DC OUTPUT

See power output ratings for specific models. Adjustable range $\pm 5\%$ minimum. See voltage adjust specifications.

VOLTAGE ADJUST

Adjustable range $\pm 5\%$ minimum on fixed output models. Voltage adjustable over range indicated ($\pm 5\%$) for wide range models. Voltage non-adjustable on models OLD-122B and OLD-15B. Models OLD-24AA, OLD-24BB and OLD-24CC are factory set at 24V. Adding jumper allows 18 to 20V adjustable output.

EMI/RFI

Inherently low conducted and radiated noise levels.

LINE REGULATION

$\pm 0.05\%$ for a 10% line change. $\pm 1.0\%$ for models OLD-12B and OLD-15B.

LOAD REGULATION

$\pm 0.05\%$ for a 50% load change. $\pm 1.0\%$ for models OLD-12B and OLD-15B.

TRANSIENT RESPONSE

Less than 50 μ sec for a 50% load change at $\pm 2\%$ of nominal output voltage.

SHORT CIRCUIT & OVERLOAD PROTECTION

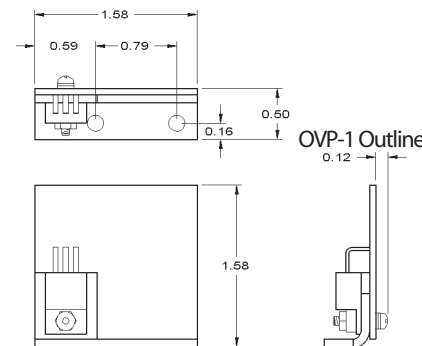
Automatic current limit/foldback. Output recovers upon removal of fault condition.

OVERVOLTAGE PROTECTION

Built-in on all main 5V outputs. Factory set at 6.2V $\pm 0.4V$. Other outputs use optional overvoltage protection module, OVP-1.

OPTIONAL OVERVOLTAGE PROTECTION

OVP module, model OVP-1, may be used with any output not supplied with factory built-in OVP. Adjustable range, 6.4 to 34V. Maximum current rating 8.0A. Module may be used to protect dual outputs (± 12 or ± 15). Recommended trip point is 15 to 133% of output voltage.



NOISE AND RIPPLE

5V through 15V models: 5.0 mV p-p max. OLD-12B and OLD-15B: 0.2% of output voltage p-p max. 24V models: 3 mV p-p plus 0.2% of output voltage max.

REMOTE SENSING

Provided on most outputs. Open sense lead protection built-in. Exceptions are noted with an asterisk. See output power rating table for specific model.

STABILITY

$\pm 0.3\%$ for 24-hour period after 1-hour warm-up.

MTBF

Per MIL-HDBK-217D at 100% load, 120 VAC line and 25°C ambient temperature.

CASE SIZE MTBF RATINGS

Case	# Outputs	MTBF hrs
B	1	300,000
B	2	460,000
C	1	300,000
N	1	260,000
N	2	150,000
D	1	250,000
D	3	120,000
AA	2	175,000
AA	3	140,000
BB	2	160,000
CC	2	155,000
131	3	120,000

TEMPERATURE RATINGS

Operating: 0°C to +50°C full-rated load.
Derate to 40% at 70°C.
Storage: -40°C to +85°C.

TEMPERATURE COEFFICIENT

$\pm 0.03\%/^{\circ}C$ maximum.

EFFICIENCY

Typical efficiency: 5V output, 45%; 12 and 15V output, 55%; 24V to 250V outputs: 60%.

VIBRATION

Per MIL-STD-810C, Method 514, Procedure XCA T. G-1.

SHOCK

Per MIL-STD-810C, Method 516, Procedure V.

DIMENSIONS AND WEIGHT

See dimensional drawings.

SAFETY

Compliance to international safety regulations for power supply specs. UL recognized, file #E102103. CSA certified, cert. #LR69809. VDE registered: OLS-B, file #3212; OLS-C, #3208; OLS-N, #3210; OLS-D, #3214; OLD-B, #3218; OLT-F, #3206; OLD-24AA & 24BB, #3216; OLD-5AA, 512AA, 12/15AA & OLT-522A, #3257; OLD-5BB, 12/15BB & 512BB, #3259; OLD-5CC, 24CC, 12/15CC & 512CC, #3261.

OUTPUT TAP AND PCB VOLTAGE CHANGES

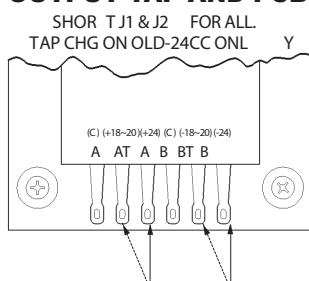


Fig. 1 Models OLD-24AA, 24BB, 24CC

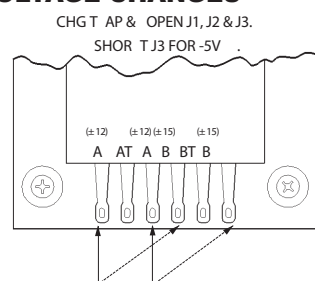


Fig. 2 Models OLD-12/15AA, 12/15BB

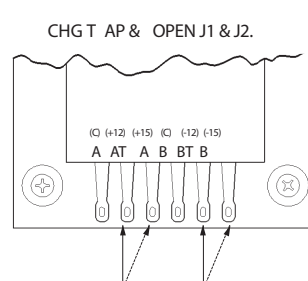


Fig. 3 Models OLD-12/15CC

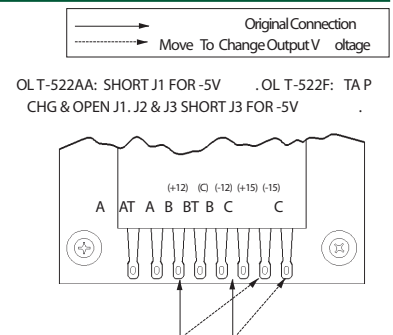


Fig. 4 Models OLT-522AA, 522F

For more detailed information and individual product specification sheets visit

www.tamuracorp.com

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