



240W, 3 and 4 Channel, Class 2 LED Drivers

ALD240 series



- Single Outputs w. 3 and 4 Channels
- Universal or 277 VAC Input Range
- 8VDC to 48VDC Outputs
- Short Circuit Protection
- Full Safety Approvals for Class 2, Outdoor Wet Locations and LED Lighting

Model Number	I/P Voltage	O/P Voltage	# of Channels	Chan 1 OCP Trip	Chan 2 OCP Trip	Chan 3 OCP Trip	Chan 4 OCP Trip	Max Combined Current	Output Watts max.
ALD240-408V-FC	90-264 VAC	8 VDC	4	5 Amps	5 Amps	5 Amps	5 Amps	20 Amps	160W
ALD240-410V-FC	90-264 VAC	10 VDC	4	5 Amps	5 Amps	5 Amps	5 Amps	20 Amps	200W
ALD240-412V-FC	90-264 VAC	12 VDC	4	5 Amps	5 Amps	5 Amps	5 Amps	20 Amps	240W
ALD240-415V-FC	90-264 VAC	15 VDC	4	5 Amps	5 Amps	5 Amps	5 Amps	16 Amps	240W
ALD240-318V-FC	90-264 VAC	18 VDC	3	5 Amps	5 Amps	5 Amps		13.3 Amps	240W
ALD240-321V-FC	90-264 VAC	21 VDC	3	4.57 Amps	4.57 Amps	4.57 Amps		11.4 Amps	240W
ALD240-324V-FC	90-264 VAC	24 VDC	3	4 Amps	4 Amps	4 Amps		10 Amps	240W
ALD240-327V-FC	90-264 VAC	27 VDC	3	3.55 Amps	3.55 Amps	3.55 Amps		8.88 Amps	240W
ALD240-336V-FC	90-264 VAC	36 VDC	3	2.66 Amps	2.66 Amps	2.66 Amps		6.67 Amps	240W
ALD240-348V-FC	90-264 VAC	48 VDC	3	2 Amps	2 Amps	2 Amps		5 Amps	240W

Model Number	I/P Voltage	O/P Voltage	# of Channels	Chan 1 OCP Trip	Chan 2 OCP Trip	Chan 3 OCP Trip	Chan 4 OCP Trip	Max Combined Current	Output Watts max.
ALDH240-408V-FC	221-332 VAC	8 VDC	4	5 Amps	5 Amps	5 Amps	5 Amps	20 Amps	160W
ALDH240-410V-FC	221-332 VAC	10 VDC	4	5 Amps	5 Amps	5 Amps	5 Amps	20 Amps	200W
ALDH240-412V-FC	221-332 VAC	12 VDC	4	5 Amps	5 Amps	5 Amps	5 Amps	20 Amps	240W
ALDH240-415V-FC	221-332 VAC	15 VDC	4	5 Amps	5 Amps	5 Amps	5 Amps	16 Amps	240W
ALDH240-318V-FC	221-332 VAC	18 VDC	3	5 Amps	5 Amps	5 Amps		13.3 Amps	240W
ALDH240-321V-FC	221-332 VAC	21 VDC	3	4.57 Amps	4.57 Amps	4.57 Amps		11.4 Amps	240W
ALDH240-324V-FC	221-332 VAC	24 VDC	3	4 Amps	4 Amps	4 Amps		10 Amps	240W
ALDH240-327V-FC	221-332 VAC	27 VDC	3	3.55 Amps	3.55 Amps	3.55 Amps		8.88 Amps	240W
ALDH240-336V-FC	221-332 VAC	36 VDC	3	2.66 Amps	2.66 Amps	2.66 Amps		6.67 Amps	240W
ALDH240-348V-FC	221-332 VAC	48 VDC	3	2 Amps	2 Amps	2 Amps		5 Amps	240W

*Note: All noise measurements made at the output terminals, connected to a 20MHz low pass filter



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INPUT SPECIFICATIONS

Input Voltage	90-264 VAC or 221-332 VAC
Input Frequency	47-63Hz
Max. Inrush Current	50A @ 230VAC Input
	25°C, cold start-up

OUTPUT SPECIFICATIONS

Output Voltage/Current	See Model Chart
Output Voltage Adjust	+5/-25% with on board pot
Max. Output Power	See Model Chart
Efficiency	80% min. @ FL, 230 VAC Input
Noise/Ripple	1% of rated output voltage measured at the output terminals connected to a 20Mhz low pass filter
Hold Up Time	16mS @ FL, 100 VAC Input
Start Up Time	1 Second, typ.
Transient Response	4mS, FL to 1/2L, 100 VAC Input
Line Regulation	±1% max.
Voltage Mode Load Regulation	±5% max.
Over Current Protection	105% Max. per Channel (Hiccup- mode, Auto-Recovery upon removal of over current condition.) *
Constant Current Mode Regulation	±3% max.
Constant Current Adjust	+3/-90% with on board pot
Over Voltage Protection	132% max. *
Short Circuit Protection	Hiccup Mode, Auto Recovery *

* These are stress ratings. Exposure of the devices to any of these conditions may adversely affect long term reliability. Proper operation under conditions other than the standard operating conditions is neither warranted nor implied.

All specifications are typical at nominal input, full load, and 25DegC unless otherwise noted

ENVIRONMENTAL SPECIFICATIONS

MTBF	100K Hrs, FL @ 25°C ambient, Based on MIL-217F
Cooling	Convection
Operating Temp.	-20°C to +70°C FL
Storage Temperature	-40°C to +85°C
Relative Humidity	5% to 95% non-condensing

PHYSICAL SPECIFICATIONS

Case Design/Material	NEMA 3 design/Aluminum with AC and DC Wiring Compartments (2.0" x 6.0" per compartment) Natural White / Potted
Size	10.5"L x 6.0"W x 2.0"H

COMPLIANCE / SAFETY

EMI / RFI	CISPR-22B, FCC-15B EN61000-3-2 (EMC)
Safety Standards	UL/CUL 1310/1585, Class 2, Wet locations, CE

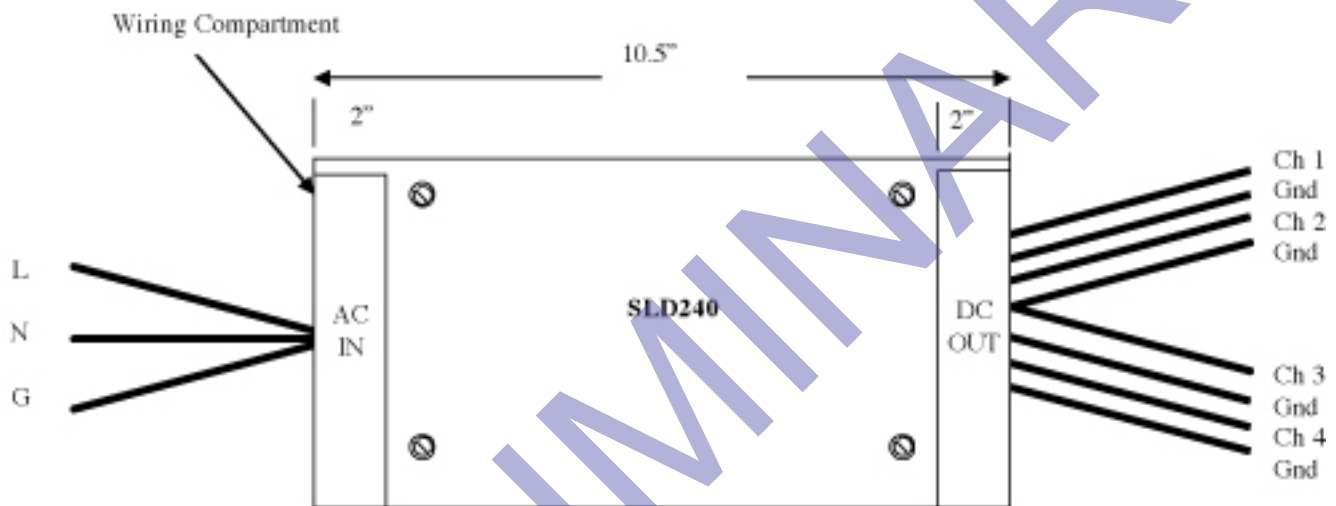
Astrodyne products are not authorized or warranted for use as critical components in life support systems, equipment used in hazardous environments, nuclear controls systems, or other mission-critical applications.



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MECHANICAL DIMENSIONS



SLD240-xxxV-FC

Dimensions: 6.0" W x 10.5" L x 2.0" H Inches
(1/2" Conduit entries and wiring compartments)