



# POWER SUPPLIES ADUL SERIES

## FEATURES

- Switching electronic power supply
- Constant voltage
- Universal input voltage: 90-305V AC
- Single and multiple 12V or 24V DC outputs
- UL listed dry/damp location box

## ENVIRONMENTAL

- MTBF: 100,000 hrs at full load and 25°C
- Heat dissipation: Built in fan
- Operating temperature: -40°C - +80°C (Full load)
- Storage temperature: -65°C - +90°C

## MECHANICAL SPECIFICATION

- Steel enclosure
- Internal holes for wall mount and ½" knockouts for conduit and fittings

## ELECTRICAL DATA

- Secondary circuit maximum protection for Class II Circuits: 5A for 12V DC, 4A for 24V DC
- Class I secondary circuit protection provided to deregulated load maximums
- Voltage regulated
- Auto overload/short circuit/over voltage protection

## SAFETY AND COMPLIANCE

- Tested and compliant to UL 1310 standards
- cULus Listed in compliance with UL standards 2108 and 8750 and CSA standard C22.2



## ORDERING INFORMATION

DESCRIPTION	CAT. NO.	APPLICATION	PRIMARY VOLTAGE	SECONDARY VOLTAGE	CIRCUIT BREAKERS	MAX. LOAD	CIRCUIT CAPACITY	DIMENSION
ADUL Series Class I Transformer	ADUL-240-1-15-12-D	INDOOR OR DAMP PROTECTED	90-305V AC	12V DC	1	180W	15A	10.00" W X 10.00" L X 4.00" D
	ADUL-320-1-12-24-D			24V DC	1	288W	12A	

## ORDERING INFORMATION

DESCRIPTION	CAT. NO.	APPLICATION	PRIMARY VOLTAGE	SECONDARY VOLTAGE	CIRCUIT BREAKERS	MAX. LOAD	CIRCUIT CAPACITY	DIMENSION
ADUL Series Class II Transformer	ADUL-80-1-5-12-D	INDOOR OR DAMP PROTECTED	90-305V AC	12V DC	1	60W	5A	10.00" W X 10.00" L X 4.00" D
	ADUL-150-2-5-12-D				2	120W	5A	
	ADUL-240-3-5-12-D				3	180W	5A	
	ADUL-320-4-5-12-D				4	240W	5A	
	ADUL-120-1-4-24-D			24V DC	1	96W	4A	
	ADUL-240-2-4-24-D				2	192W	4A	
	ADUL-320-3-4-24-D				3	288W	4A	

PRODUCT	CAT NO	TOTAL WATTAGE LOAD	CLASS	PRODUCT	CAT NO	TOTAL WATTAGE LOAD	CLASS
<b>COVE LIGHTING</b>				<b>TUBE LIGHTING</b>			
<b>COVELUM DESIGNER SERIES WHITES</b>	ADUL-240-1-15-12-D	180W	Class I (12V)	<b>FASTUBE 360°</b> Requires 12VDC Power Supply	ADUL-80-1-5-12-D	60W	Class II (12V)
		ADUL-80-1-5-12-D	60W		Class II (12V)	ADUL-150-2-5-12-D	
<b>COVELUM LED COLORS</b> Requires 12V DC Power Supply	ADUL-150-2-5-12-D	120W			ADUL-240-3-5-12-D	180W	
	ADUL-240-3-5-12-D	180W			ADUL-320-4-5-12-D	240W	
	ADUL-320-4-5-12-D	240W		<b>ILLUMILINE LED</b> Requires 12VDC Power Supply	ADUL-80-1-5-12-D	60W	Class II (12V)
	ADUL-240-1-15-12-D	180W	Class I (12V)		ADUL-150-2-5-12-D	120W	
ADUL-80-1-5-12-D	60W	Class II (12V)	ADUL-240-3-5-12-D		180W		
ADUL-150-2-5-12-D	120W		ADUL-320-4-5-12-D		240W		
<b>PLATINUM COVE LED</b> Requires 12VDC Power Supply	ADUL-240-3-5-12-D	180W		<b>ILLUMILINE HO LED</b> Requires 24V DC Power Supply	ADUL-120-1-4-24-D	96W	Class II (24V)
	ADUL-240-3-5-12-D	180W			ADUL-240-2-4-24-D	192W	
	ADUL-320-4-5-12-D	240W			ADUL-320-3-4-24-D	288W	
	ADUL-320-4-5-12-D	240W					

# POWER SUPPLIES ADUL SERIES



PRODUCT	CAT NO	TOTAL WATTAGE LOAD	CLASS
<b>SPECIALTY LIGHTING</b>			
<b>STARLIGHT LED</b> Requires 12VDC Power Supply	ADUL-240-1-15-12-D	180W	Class I (12V)
	ADUL-80-1-5-12-D	60W	Class II (12V)
	ADUL-150-2-5-12-D	120W	
	ADUL-240-3-5-12-D	180W	
	ADUL-320-4-5-12-D	240W	

PRODUCT	CAT NO	TOTAL WATTAGE LOAD	CLASS	
<b>STRAND LIGHTING</b>				
<b>TIVOTAPE SB 3.0 INDOOR</b> <b>TIVOTAPE HO 4.4 INDOOR</b> <b>TIVOTAPE RGB INDOOR</b> <b>TIVOTAPE XS INDOOR</b> <b>TIVOTAPE VAR. XS INDOOR</b> Requires 24V DC Power Supply	ADUL-120-1-4-24-D	96W	Class II (24V)	
	ADUL-240-2-4-24D-D	192W		
	ADUL-320-3-4-24-D	288W		
	<b>CONTINULUM INDOOR</b> Requires 24V DC Power Supply	ADUL-120-1-4-24-D	96W	Class II (24V)
	ADUL-240-2-4-24D-D	192W		
<b>ILLUMIWALL</b> Requires 24V DC Power Supply	ADUL-120-1-4-24-D	96W	Class II (24V)	
	ADUL-240-2-4-24D-D	192W		
	ADUL-320-3-4-24-D	288W		

## DIMMERS

### DIMMING CAPABILITIES

**Primary Dimming** - AD series power supplies are designed for variable input voltage and are not dimmable from the primary load side.

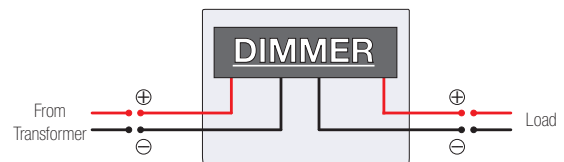
**Secondary Dimming** - Secondary can be dimmed with use of electronic low voltage 12VDC or 24VDC dimmers or with 1-10V dimming modules such as the DIM-OT-1-5-D or DIM-OT-1-4-D.

### DC DIGITAL DIMMER (FULL RANGE CONTROL)

DESCRIPTION	CAT. NO.	INPUT VOLTAGE	OUTPUT VOLTAGE	MAX. LOAD	BREAKER RATING	DIMENSIONS
DC Digital Dimmer	DIM-12V-8A	12V DC	12V DC	96W	8A	Single gang box
	DIM-24V-8A	24V DC	24V DC			

### TYPICAL CONFIGURATION

Dimmer on Transformer secondary

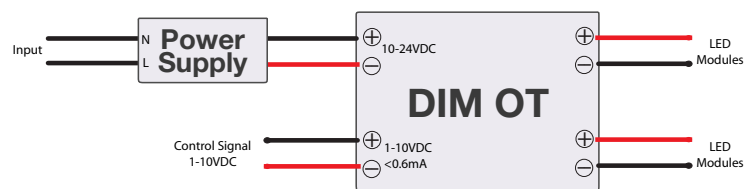


### DIM-OT CONTROL INTERFACE (FULL RANGE CONTROL)

DESCRIPTION	CAT NO	CONTROL SIGNAL	INPUT VOLTAGE	OUTPUT VOLTAGE	MAX. LOAD	BREAKER RATING	DIMENSIONS
Control Interface	DIM-OT-1-5-D	1-10VDC	12V DC	12V DC	60W	5A*	7"L x 1½"W x ¾"H
	DIM-OT-1-4-D	1-10VDC	24V DC	24V DC	96W	4A**	7"L x 1½"W x ¾"H

### TYPICAL DIM-OT CONFIGURATION

Dimmer (1-10VDC signal) and transformer to DIM-OT interface.



**NOTE:** DIM-OT is a full range control interface that receives dimming signal from various controllers (1-10VDC). Consult factory for more information.

\*DIM-OT applications require 1 each DIM-OT per 5 amp circuit at 12V DC.

\*\*DIM-OT applications require 1 each DIM-OT per 4 amp circuit at 24V DC.