DL2-150-U series

150W Constant Voltage class II plastic case DIN-Rail Power Supply





■ Features:

• Universal AC input / Full range: 85 – 264VAC and 120 – 370VDC. Withstand 300VAC surge input for 5s

• High Dielectric Strength: IN/OUT up to 4000VAC

Protections: Over current / Short circuit / Over Voltage / Over temperature

• Wide operating ambient temperature range: -30°C ÷ +70°C (can be start up at -40°C)

Over-voltage category OVC III (designed to meet EN61558-1)

• Low no load power consumption

Isolation class II design

• Designed to install on T\$35x7.5/T\$35x15 Din Rail



MODEL NUMBERING

DL2	- 150 -	X		- U
Series	RATED OUTPUT POWER	RATED OUTPUT	Voltage	Input Voltage Range
		X = 12	12V	
DIN RAIL. PLASTIC CASE,	150 MEANS 150W (NOT FOR ALL VOLTAGE VERSIONS, PLEASE	X = 15	15V	
Class II Power Supply, Constant Voltage Design	CHECK DETAILS IN BELOW SPECIFICATION — OUTPUT SECTION)	X = 24	24V	- U means 85~264VAC / 120~370VDC
	SPECIFICATION OUTPUT SECTION	X = 48	48V	-

ELECTRICAL SPECIFICATION

MODEL	DL2-150-12-U	DL2-150-15-U	DL2-150-24-U	DL2-150-48-U
OUTPUT				
Rated Voltage	12V	15V	24V	48V
RATED CURRENT FOR 100-120VAC INPUT / 200-240VAC INPUT	10.17A / 11.3A	8.55A / 9.50A	5.31A / 6.25A	2.72A / 3.2A
Adjustable Voltage Range (min.)	10.8V ÷ 13.8V	13.5V ÷ 18.0V	21.6V ÷ 29V	43.2V ÷ 52.8V
RATED POWER FOR 100-120VAC INPUT / 200-240VAC INPUT	122.04W / 135.6W	128.25W / 142.5W	127.44W / 150W	130.56W / 153.6W
LINE REGULATION	± 1.0%	± 1.0%	± 1.0%	± 1.0%
LOAD REGULATION	± 1.0%	± 1.0%	± 1.0%	± 1.0%
RIPPLE & NOISE (MAX.) [2]	100mV _{P-P}	120mV _{P-P}	150mV _{P-P}	150mV _{P-P}
SETUP TIME, HOLD UP TIME (TYP.)	800ms, 30ms / 230VA	C at full load, 800ms, 12	2ms / 230VAC at full loa	ıd
CAPACITIVE LOAD (MAX.)	10000µF	8000µF	5000µF	2400µF

INPUT

INPUT					
Voltage Range	85 ÷ 264VAC				
VOLTAGE RANGE	120 ÷ 370VDC				
FREQUENCY RANGE	47 ÷ 63Hz				
Efficiency (TYP.)	89%	89.5%	91.5%	91%	
AC CURRENT (MAX.)	1.8A / 230VAC	; 3A / 115VAC			
INRUSH CURRENT (TYP.)	70A / 230VAC;	35A / 115VAC			
No LOAD POWER CONSUMPTION (MAX.)	0.3W	0.3W	0.35W	0.4W	

DL2-150-U series

150W Constant Voltage class II plastic case DIN-Rail Power Supply



PROTECTIONS

	Range: above 105% rated current Type: Hiccup mode or constant current limiting when output voltage < 50% of rated, auto- recovery; Constant current limiting within 50%-100% rated output voltage, auto-recovery.				
Over Current					
Short Circuit	Type: hiccup mc	de, auto-recovery.			
Over Voltage	≤ 16VDC	≤ 23VDC	≤ 35VDC	≤ 60VDC	
Over Temperature	Range: max. 85°	C – activation; min. 50°	C- deactivation		

WORKING ENVIRONMENT

Working Temperature	$-30^{\circ}\text{C} \div 70^{\circ}\text{C}$ (Refer to Derating Curve)	
STORAGE TEMPERATURE AND HUMIDITY	-40°C ÷ 85°C, 10 ÷ 95% RH non-condensing	
TEMPERATURE COEFFICIENT (TYP.)	± 0.03% / °C	
OPERATING ALTITUDE (MAX.)	2000m	

SAFETY AND EMC REGULATIONS	
SAFETY STANDARDS	Compliance to EN62368-1; Designed to meet EN61558-1, EN60335-1
WITHSTAND VOLTAGE	IN/OUT: 4000VAC (< 5mA / 1min)
EMC Emission	Compliance to EN55032
ΕΜС ΙΜΜυΝΙΤΥ	Compliance to: EN55035; EN61000-4-2, -3, -4, -5, -6, -11
HARMONIC CURRENT	Compliance to: EN61000-3-2 class A (for max. 70% load), EN61000-3-3

OTHERS	
MTBF (міл.)	300 000h / 25°C per MIL-HDBK-217F
DIMENSIONS AND NET WEIGHT	90.00 x 105.00 x 55.40mm (L x W x H)
Case Material	Black plastic heat-resistant (UL94V-0)
N ет W еіднт	0.33kg

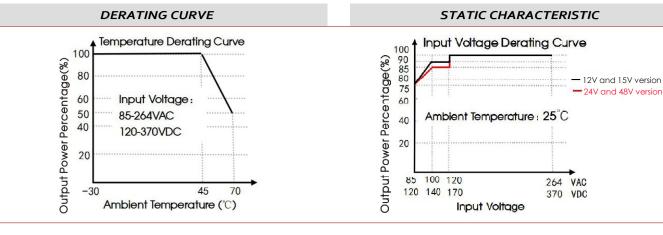
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load, 25°C of ambient temperatur and humidity <75% RH.

 2. Ripple & noise is measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF i 47μF parallel capacitor.
3. Power supply is considered as component not indented to apply by end-user. Power supply meets safety and EMC standards however the final equipment with power supply must be re-quality to comply with EMC Directives.4. Specifications are subject to change without prior notice.

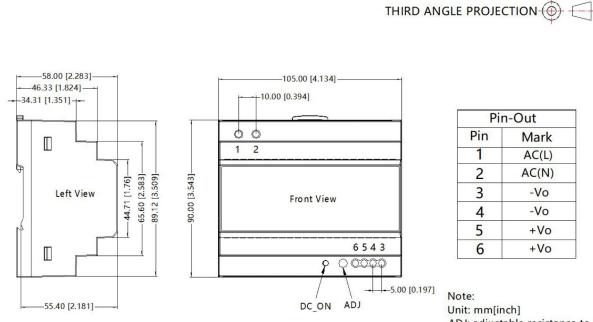
DL2-150-U series

150W Constant Voltage class II plastic case DIN-Rail Power Supply





MECHANICAL SPECIFICATION



Pin-Out		
Pin	Mark	
1	AC(L)	
2	AC(N)	
3	-Vo	
4	-Vo	
5	+Vo	
6	+Vo	

Unit: mm[inch] ADJ: adjustable resistance to change output voltage Wire range: 24-12 AWG Tightening torque: Max 0.4 N·m Mounting rail: TS35 General tolerances: ±1.00[±0.039]