DL2-30-U series

30W Constant Voltage class II plastic case DIN-Rail Power Supply





■ Features:

- Universal AC input / Full range: 85 264VAC and 120 370VDC
 - High Dielectric Strength: IN/OUT up to 4000VAC
 - Protections: Over current / Short circuit / Over Voltage
- Wide operating ambient temperature range: -40°C ÷ +70°C
- Over-voltage category OVC III (designed to meet EN61558-1)
 - Low no load power consumption
 - Isolation class II design
 - Designed to install on TS35x7.5/TS35x15 Din Rail



MODEL NUMBE	RING					
DL2	- 30		- X		- U	
SERIES	RATED OUTP	UT P OWER	RATED OUTPUT	OLTAGE	Input Voltage Range	
			X = 05	5V		
DIN RAIL. PLASTIC CASE,	30 MEANS 30V	V (NOT FOR ALL	X = 12	12V		
CLASS II POWER SUPPLY,	VOLTAGE VERSIONS DETAILS IN BELOW:	-	X = 15	15V	U means 85~264VAC / 120~370VDC	
Constant Voltage Design	OUTPUT SE		X = 24	24V	_	
			X = 48	48V	_	

ELECTRICAL SPECIFICATION					
MODEL	DL2-30-05-U	DL2-30-12-U	DL2-30-15-U	DL2-30-24-U	DL2-30-48-U
OUTPUT					
RATED VOLTAGE	5V	12V	15V	24V	48V
RATED CURRENT	3.0A	2.0A	2.0A	1.5A	0.75A
Adjustable Voltage Range (min.)	4.9V ÷ 5.5V	10.8V ÷ 13.8V	13.5V ÷ 18.0V	21.6V ÷ 29V	43.2V ÷ 55.2V
RATED POWER	15W	24W	30W	36W	36W
LINE REGULATION	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%
LOAD REGULATION	± 1.5%	± 1.5%	± 1.5%	± 1.5%	± 1.5%
RIPPLE & NOISE (MAX.) [2]	$80 \text{mV}_{\text{P-P}}$	$120 mV_{P\text{-}P}$	120mV _{P-P}	150mV _{P-P}	$240 mV_{P-P}$
SETUP TIME, HOLD UP TIME (TYP.)	3000ms, 60ms / 2	230VAC at full load;	3000ms, 12ms / 1	15VAC at full load	
CAPACITIVE LOAD (MAX.)	12000μF	6000μF	5000μF	1400μF	600μF

INPUT					
	85 ÷ 264VA	2			
VOLTAGE RANGE	120 ÷ 370VI	DC .			
FREQUENCY RANGE	47 ÷ 63Hz				
EFFICIENCY (TYP.)	82%	88%	89%	88%	90%
AC CURRENT (MAX.)	0.5A / 230V	AC; 0.9A / 115VAC			
INRUSH CURRENT (TYP.)	45A / 230V	AC; 25A / 115VAC			

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	Range: above	e 120% rated currer	nt 		
Over Current	Type: auto-red	covery			
SHORT CIRCUIT	Type: hiccup r	mode, auto-recovei	ry.		
0 1/	≤ 7.5VDC	≤ 16VDC	≤ 20VDC	≤ 36VDC	≤ 60VDC
O VER V OLTAGE	Type: hiccup r	mode or output vol	tage clamp		

WORKING ENVIRONMENT	
Working Temperature	-40°C ÷ 70°C (Refer to Derating Curve)
STORAGE TEMPERATURE AND HUMIDITY	-40°C ÷ 85°C, 10 ÷ 95% RH non-condensing
TEMPERATURE COEFFICIENT (TYP.)	± 0.02% / °C
OPERATING ALTITUDE (MAX.)	2000m

SAFETY AND EMC REGULA	TIONS	
SAFETY STANDARDS	Compliance to EN62368-1; Designed to meet EN61558-1	
WITHSTAND VOLTAGE	IN/OUT: 4000VAC (< 5mA / 1min)	
EMC Emission	Compliance to EN55032	
EMC IMMUNITY	Compliance to: EN55035; EN61000-4-2, -3, -4, -5, -6, -11	
HARMONIC CURRENT	Compliance to: EN61000-3-2 class A, EN61000-3-3	

OTHERS	
MTBF (MIN.)	300 000h / 25°C per MIL-HDBK-217F
DIMENSIONS	92.66 x 35.00 x 58.00mm (L x W x H)
CASE MATERIAL	Black plastic heat-resistant (UL94V-0)
Net Weight	0.06kg

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

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Ripple & noise is measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF i 47μF parallel capacitor.
 Power suppply 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.

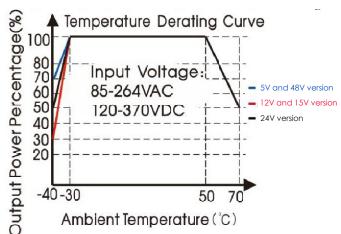
DL2-30-U series

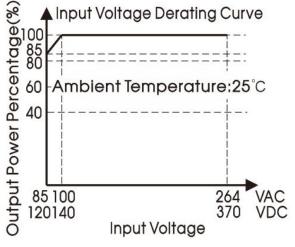
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DERATING CURVE

STATIC CHARACTERISTIC

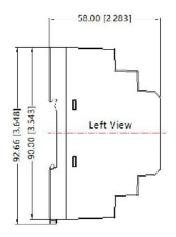


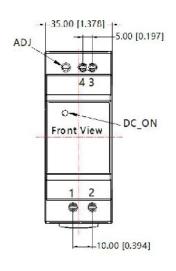


MECHANICAL SPECIFICATION

THIRD ANGLE PROJECTION







Pin	DL2-30-U
1	AC(N)
2	AC(L)
3	-Vo
4	+Vo

Note:

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]

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