DS2-75-U series

75W Constant Voltage metal case DIN-Rail Power Supply



■ Features:

- Universal AC input / Full range: 90 264VAC and 120 370VDC
 - 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
 - Low ripple and noise
 - Designed to install on TS35x7.5/TS35x15 Din Rail
 - Ultra slim design: suitable for small chassis and narrow space instalation
 - Accepts AC or DC input (dual-use of same terminal)



CERROHS

MODEL NUMBERING					
DS2	- 75	- х		-	U
SERIES	RATED OUTPUT POWER	RATED OUTPUT V	OLTAGE		INPUT VOLTAGE RANGE
DIN RAIL. METAL CASE, POWER SUPPLY, CONSTANT VOLTAGE DESIGN	75 MEANS 75W (NOT FOR ALL VOLTAGE VERSIONS, PLEASE CHECK DETAILS IN BELOW SPECIFICATION — OUTPUT SECTION)	X = 12	12V		
		X = 24	24V	-	U means 90~264VAC / 120~370VDC
		X = 48	48V		

ELECTRICAL SPECIFICATION			
MODEL	D\$2-75-12-U	DL2-75-24-U	DL2-75-48-U
ОUТРUТ			
RATED VOLTAGE	12V	24V	48V
RATED CURRENT	6.3A	3.2A	1.6A
ADJUSTABLE VOLTAGE RANGE	12V ÷ 14V	24V ÷ 28V	48V ÷ 53V
RATED POWER	75,6W	76,8W	76,8W
LINE REGULATION	± 0.5%	± 0.5%	± 0.5%
LOAD REGULATION	± 1.0%	± 1.0%	± 1.0%
RIPPLE & NOISE (MAX.) [2]	$80 \text{mV}_{\text{P-P}}$	120mV _{P-P}	150mV _{P-P}
HOLD UP TIME (MIN.)	60ms / 230VAC; 12ms / 115VAC		
CAPACITIVE LOAD (MAX.)	6000μF	1500μF	1000μF

INPUT	
VOLTAGE RANGE	90 ÷ 264VAC
	120 ÷ 370VDC
	120 : 370000

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FREQUENCY RANGE	47 ÷ 63Hz	47 ÷ 63Hz		
EFFICIENCY (TYP.)	86%	89%	90%	
AC CURRENT (MAX.)	1A / 230VAC; 2A / 1	1A / 230VAC; 2A / 115VAC		
INRUSH CURRENT (TYP.)	45A / 230VAC; 25A ,	45A / 230VAC; 25A / 115VAC		

PROTECTIONS		
Over Current	NORMAL TEMPERATURE	-150% lo, constant current mode, automatic recover after fault condition is removed
	Low Temperature, High Temperature	≥105%lo, constant current mode, automatic recover after fault condition is removed
SHORT CIRCUIT	RECOVERY TIME <3s AFTER SHORT CIRCUIT DISAPPEAR.	Constant current, continuous, self-recovery
	12V	≤17V (Output voltage turn off, re-power on for recover)
OVER VOLTAGE	24V	≤33V (Output voltage turn off, re-power on for recover)
	48V	≤60V (Output voltage turn off, re-power on for recover)
Over Temperature		Output voltage turn off, re-power on for recver after the temperature drops.

WORKING ENVIRONMENT		
WORKING TEMPERATURE	-30°C ÷ 70°C (Refer to Derating Curve)	
STORAGE TEMPERATURE AND HUMIDITY	-40°C ÷ 85°C, 10 ÷ 95% RH non-condensing	

SAFETY AND EMC REGULAT	ONS	
SAFETY STANDARDS	Compliance to EN62368-1	
WITHSTAND VOLTAGE	IN/OUT: 4000VAC (< 10mA / 1min)	
EMC Emission	Compliance to EN55032 Class B, EN61000-3-2 Class A	
EMC IMMUNITY	Compliance to: EN55035; EN61000-4-2, -3, -4, -5, -6, -11	

OTHERS	
MTBF (MIN.)	300 000h / 25°C per MIL-HDBK-217F
DIMENSIONS AND NET WEIGHT	32.00 x 125.00 x 87.50mm (L x W x H)
CASE MATERIAL	Metal (AL1100, SGCC)
NET WEIGHT	0.35kg

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

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 $^{2. \}textit{ Ripple \& noise is measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 \mu F i 47 \mu F parallel capacitor.}$

^{3.} 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.

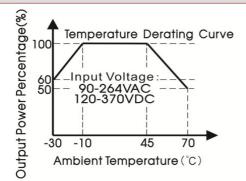
^{4.} Specifications are subject to change without prior notice.

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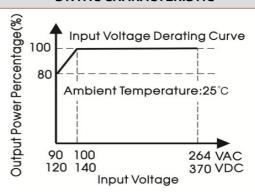
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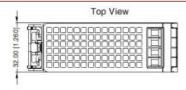
DERATING CURVE

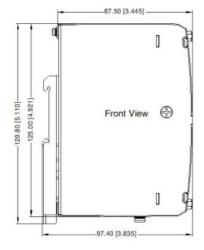


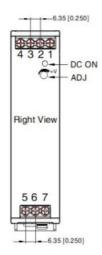
STATIC CHARACTERISTIC



MECHANICAL SPECIFICATION







THIRD ANGLE PROJECTION



Pin-Out		
Pin	Mark	
1	-Vo	
2	-Vo	
3	+Vo	
4	+Vo	
5	AC(N)	
6	AC(L)	
7	(1)	

Bottom View

Note:

Unit: mm[inch]

ADJ: Output adjustable resistor

Wire range: 26-10 AWG

Tightening torque: Max 0.79N · m

Mounting rail: TS35, rail needs to connect safety ground

General tolerances: ± 1.00[± 0.039]

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