

Data Sheet

TRU Components – Din Rail Power Supply

Last updated: 7 January 2025



Features



Isolation Class II



Class 2/Pass LPS



Ultra Slim Step Shape



DC Output Voltage Adjustable



Protection: Short Circuit/Overload/
Over Voltage



Over Voltage Category II

Technical Data

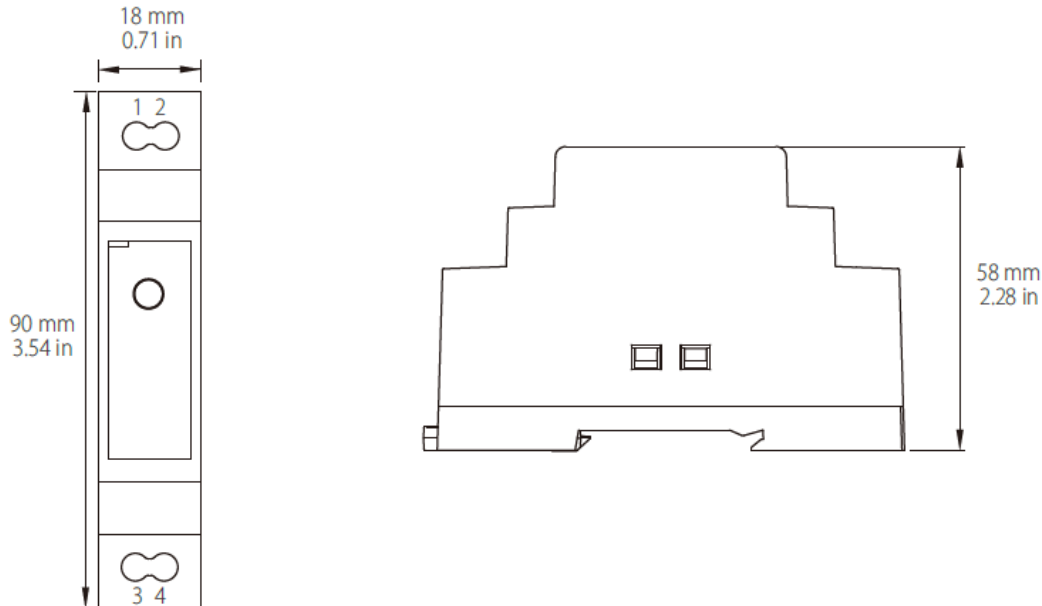
BN		2645200	2645201
MODEL		DPH-12015	DPH-24015
INPUT	VOLTAGE RANGE	100~240 VAC	
	FREQUENCY RANGE	47~63 Hz	
	POWER FACTOR (Typ.)	>0.45	
	AC CURRENT (Typ.)	0.5 A/115 VAC, 0.25 A/230 VAC	
	INRUSH CURRENT (Typ.)	COLD START 25 A/115 VAC, 45 A/230 VAC	
	LEAKAGE CURRENT	<1 mA/241 VAC	<1 mA/242 VAC
OUTPUT	DC VOLTAGE	12 VDC	24 VDC
	RATED CURRENT	1.25 A	0.625 A
	CURRENT RANGE	0~1.25 A	0~0.625 A
	RATED POWER	15 W	
	PEAK POWER	N/A	
	RIPPLE & NOISE	120 mVp-p	150 mVp-p
	VOLTAGE ADJ. RANGE	10.8-13.8 V	21.6-29 V
	VOLTAGE TOLERANCE	±2 %	
	LINE REGULATION	±1 %	
	LOAD REGULATION	±1 %	
	SETUP, RISE TIME	2000 ms, 80 ms/230 VAC at full load; 2000 ms, 80 ms/115 VAC at full load	
	HOLD UP TIME (Typ.)	30 ms/230 VAC at full load; 12 ms/115 VAC at full load	
PROTECTION	OVERLOAD	110-145 % rated output power, Hiccup mode when output voltage <50 %, recovers automatically after fault condition is removed. Constant current limiting within 50-100 % rated output voltage, recovers automatically after fault condition is removed.	
	OVER VOLTAGE	14.2~16.2 V	30~36 V
	OVER TEMPERATURE	N/A	
ENVIRONMENT	WORKING TEMP.	-20~+70 °C (refer to derating curve)	
	WORKING HUMIDITY	20~95 % RH non-condensing	
	STORAGE TEMP., HUMIDITY	-40~+85 °C, 10~95 %RH	
	TEMP. COEFFICIENT	±0.03 %/°C (0~50 °C)	
	VIBRATION	10~500 Hz, 2G, 10 min/1 cycle, period for 60 min. each along X,Y,Z axes Mounting: compliance to IEC60068-2-6	
SAFETY & EMC	SAFETY STANDARDS	UL62368-1, BS EN/EN62368-1	
	WITHSTAND VOLTAGE	I/P-O/P: 4 kVAC	
	ISOLATION RESISTANCE	I/P-O/P: 100 M ohms/500 VDC/25 °C/70 %RH	
	EMC EMISSION	BS EN/EN55032, class B, BS EN/EN61000-3-2,3	
	EMC IMMUNITY	BS EN/EN61000-4-2,3,4,5,6,8,11	
OTHERS	MTBF	932.8 K hrs min. MIL-HDBK-217F (25 °C)	
	DIMENSION (W x H x D)	18 x 90 x 58 mm	



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Dimensions and Installation



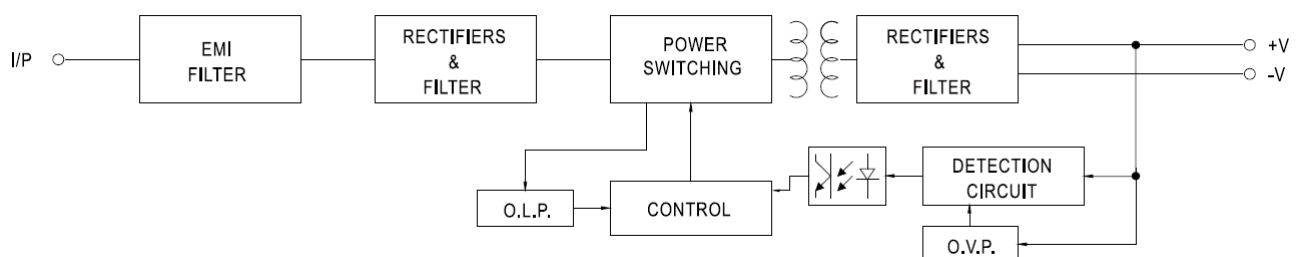
Input

No.	Description
1	+V
2	-V

Output

No.	Description
3	AC/N
4	AC/L

Functional Diagram

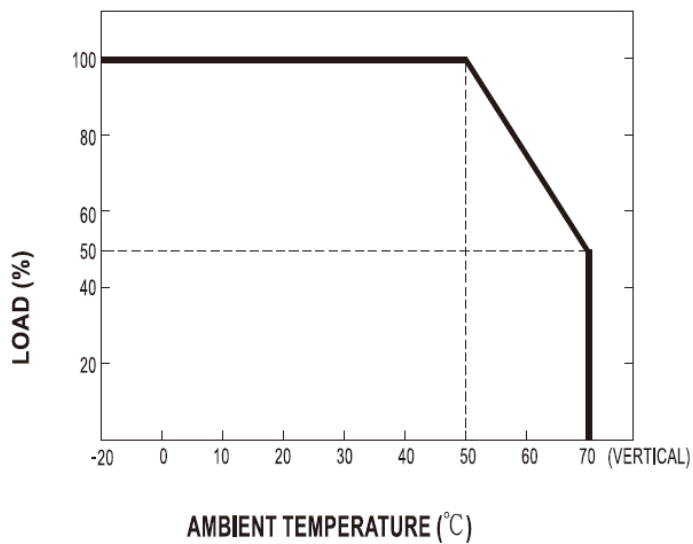




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Deduction Curve and Temperature



Minus Output and Input Voltage Curves

