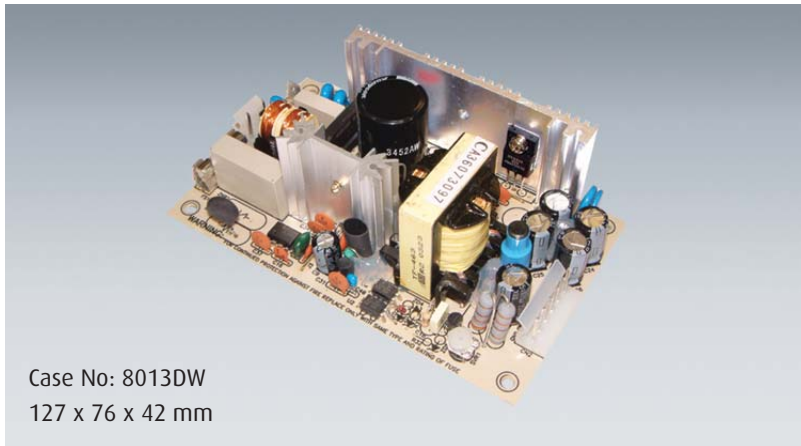


PS-65 Series

65W Single Output Switching Open Frame Power Supply



Features

- Universal AC input/ Full range
- Low leakage current <0.5mA
- Protections: Short circuit, Overload and Over voltage
- Cooling by free air convection
- 100% full load burn-in test
- Fixed switching frequency at 65KHz



Specification

INPUT	Voltage	90V ~ 264VAC universal full range or 127V ~ 370VDC.								
	Frequency	47 ----- 440 Hz								
	Current	<1.2A@115VAC; 0.72A@230VAC full load								
	Inrush Current	<20A@115VAC; 40A@230VAC input, Cold start								
	Leakage Current	<0.75mA@240VAC input								
OUTPUT	MODEL No.	PS-65-3.3	PS-65-5	PS-65-7.5	PS-65-12	PS-65-13.5	PS-65-15	PS-65-24	PS-65-27	PS-65-48
	Voltage	3.3V	5V	7.5V	12V	15V	24V	27V	36V	48V
	Rated Current	12A	12A	8A	5.2A	4.7A	4.2A	2.7A	2.4A	1.35A
	Current Range	0~15.2A	0~13.8A	0~9.6A	0~6A	0~5.4A	0~4.8A	0~3A	0~2.7A	0~1.5A
	Voltage Adj. Range	3.14~3.63V	4.75~5.5V	7.13~8.25V	11.4~13.2V	12.8~14.9V	14.25~16.5V	22.8~26.4V	25.65~29.7V	45.6~52.8V
	Output Tolerance	± 3%	± 3%	± 3%	± 2%	± 2%	± 2%	± 2%	± 2%	± 2%
	Line Regulation	± 1%	± 1%	± 1%	± 1%	± 1%	± 1%	± 1%	± 1%	± 1%
	Load Regulation	± 3%	± 3%	± 3%	± 2%	± 2%	± 2%	± 2%	± 2%	± 2%
	Ripple Noise MAX.	80mV	100mV	100mV	100mV	100mV	100mV	100mV	100mV	100mV
	Efficiency (TYP.)	69%	76%	79%	79%	79%	79%	80%	80%	80%
	Rated Power	39.6W	60W	60W	62.4W	63.45W	63W	64.8W	64.8W	64.8W
PROTECTION	Output Power (MAX)	Rated output power for convection; 72W (+3.3V: 50W;+5V:69W) with 18CFM min. Forced air								
	Over Voltage	3.8~4.46V	5.75~6.75V	8.63~10.1V	13.8~16.2V	15.5~18.2V	17.25~20.25V	27.6~32.4V	31~36.45V	55.2~64.8V
	Over Load	73~105W (3.3V:51~75W)(5V:70~105W) rated output power Hiccup mode, recovers automatically after fault condition is removed								
ELEC. CHAR.	Rise Time	<20mS at full load								
	Hold up Time	>60mS at full load								
	Setup Time	<0.8 Sec at full load								
ENVIRONMENT	Temperature	Operating: -10 ~ +60°C ; Storage: -20~ +85°C								
	Humidity	Operating: 20% ~ 90% RH (non condensing); Storage: 10% ~ 95% RH								
SAFETY	Withstand Voltage	I/P-O/P:3KVAC, I/P-FG:1.5KVAC, O/P-FG:0.5KVAC, 1minute								
	Isolation Resistance	I/P-O/P, I/P-FG 100MΩ/500VDC								
	Safety Standard	UL60950-1, TUV EN60950-1 Approved								
EMC	EMI	EN55022 (CISPR22) Class B; EN61000-3-2,3								
	EMS	EN61000-4-2,3,4,5,6,8,11; EN55024, Light industry level, criteria A								
OTHERS	Cooling	Cooling by free air convection								
	M.T.B.F.	300.7K hrs min. MIL-HDBK-217F (°C)								
	Packing	0.21Kg; 54pcs/14.2Kg/1.35CUFT								

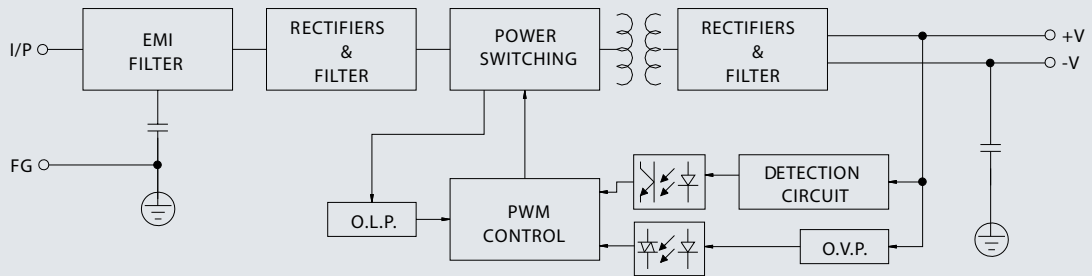
- 1 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature
- 2 Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor
- 3 Tolerance: includes set up tolerance, line regulation and load regulation
- 4 The power supply is considered a component which will be installed into final equipment. The final equipment must be re-confirmed that it still meets EMC directives
- 5 Mounting holes M1 and M2 should be grounded for EMI purposes
- 6 Heat sink HS1, HS2 can not be shorted

PS-65 Series

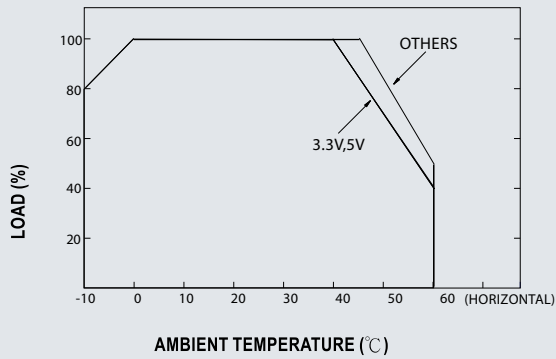
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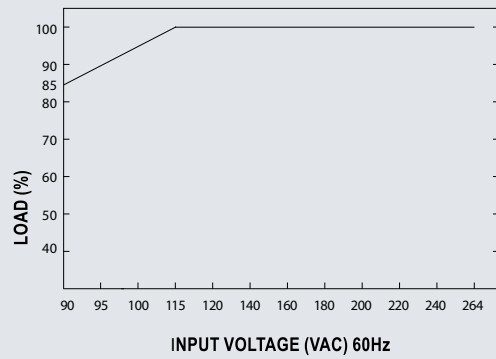
Block Diagram



De-Rating Curve



Output Derating Vs Input Voltage



Dimensions

AC Input Connector (CN1): Molex 5277-02 or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	AC/N	Molex 5191 or equivalent	Molex 5194 or equivalent
2	AC/L	Molex 5191 or equivalent	Molex 5194 or equivalent

DC Input Connector (CN2): Molex 5273-06 or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1,2,3	+V	Molex 5195 or equivalent	Molex 5194 or equivalent
4,5,6	-V	Molex 5195 or equivalent	Molex 5194 or equivalent

HS1 & HS2 can not be shorted

