



- Universal AC input
- Low leakage current $\leq 0.5\text{mA}$
- Protections: Short circuit / Overload / Over voltage
- Fixed switching frequency at 65KHz
- Cooling by free air convection
- High reliability



Model Number	Output Volts	Output Amps	Ripple & Noise	Line Reg	Load Reg	Efficiency	Volt Tolerance	Min Load
DUAL OUTPUT								
PD-65A	5 Volts(DC)	5.5 Amps	50mVpk-pk	$\pm 1.0\%$	$\pm 3.0\%$	78%	$\pm 4.0\%$	0.4~7.0Amps
	12 Volts(DC)	2.8 Amps	120mVpk-pk	$\pm 2.0\%$	$\pm 4.0\%$	78%	$\pm 7.0\%$	0.2~3.2Amps
PD-65B	5 Volts(DC)	3.5 Amps	50mVpk-pk	$\pm 1.0\%$	$\pm 3.0\%$	81%	$\pm 4.0\%$	0.4~6.0Amps
	24 Volts(DC)	2.0 Amps	150mVpk-pk	$\pm 2.0\%$	$\pm 4.0\%$	81%	$\pm 7.0\%$	0.2~2.6Amps



65W Dual Output Switching Power Supply

PD65 series

INPUT SPECIFICATIONS

Input Voltage Range	90-264VAC / 127-370 Volts(DC)
Frequency Range	47~440Hz
Inrush Current, typ: (cold start)	20 Amps/ 115VAC; 40Amps/230VAC
Input Current	1.5 Amps max @115VAC
	0.9 Amps max @ 230VAC
Leakage Current	< 0.75mAmps

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart
Line Regulation	See Selection Chart
Load Regulation	See Selection Chart
Voltage Tolerance (Note 2)	See Selection Chart
Ripple/Noise (Note 1)	See Selection Chart
Hold Up Time @ FL	60mS @ FL
Setup, Rise Time @ FL	800mS, 20mS @ FL
Over Voltage Protection	5Volts(DC) only: 5.75~6.75Volts(DC)
	Hiccup mode, auto recover
Over Current Protection	73~105W rated output power
	Hiccup mode, auto recover
DC Voltage Adjust	4.75~5.5Volts(DC): 5Volts(DC) only

GENERAL SPECIFICATIONS

Safety	UL60950-1
	TUV EN60950-1 Approved
Insulation Resistance	≥ 100MΩ / 500Volts(DC)
EMI	Compliance to EN55022 (CISPR22)
	Class B
Harmonic Current	Compliance to EN61000-3-2,-3
Efficiency	See Selection Chart
Isolation	
	3000VAC Input - Output
	1500VAC Input - Ground
	500VAC Output - Ground
EMS	Compliance to
	EN61000-4-2,3,4,5,6,8,11
	ENV50204, EN55024
	light industry level, criteria A

All specifications are typical at nominal input, full load, and 25°C unless otherwise noted

ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-10°C to +60°C (See Derate Curve)
Storage Temperature	-20°C to +85°C, 10~95% RH
Relative Humidity	20 to +90% RH
Temperature Coefficient	±0.04% / °C (0-50°C) ON +5V output
MTBF	288.1K Hrs min, MIL-HDBK-217F (25°C)
Vibration	10~500Hz, 2G10min./1cycle, period for
	60min. each along X, Y, Z axes

PHYSICAL SPECIFICATIONS

Size		
	Millimeters	127 x 76 x 42
	Inches	5" x 2.99" x 1.65"
Weight		8.47 oz (240g)

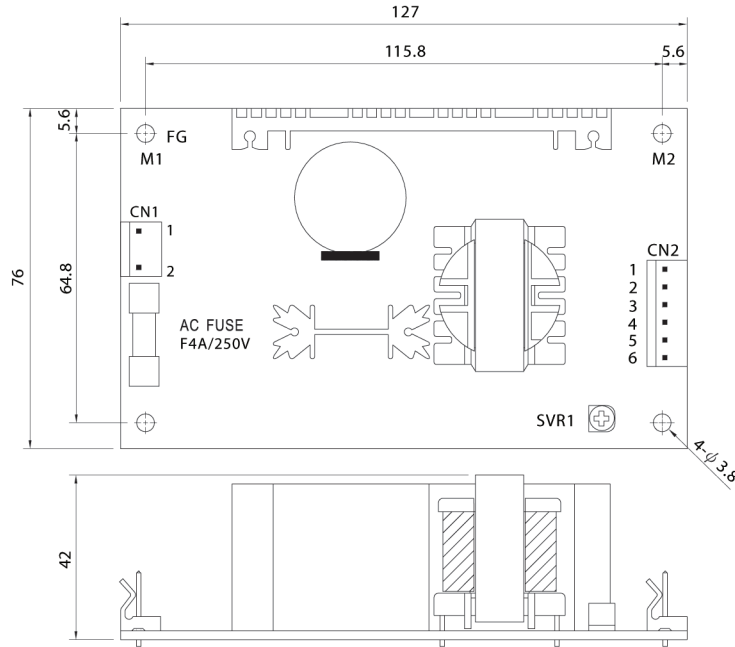
NOTE

1. Ripple and Noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47 uf parallel capacitor.
2. Tolerance: includes set up tolerance, line regulation and load regulation.
3. Mounting holes M1 and M2 should be grounded for EMI purposes.

Astrodyne products are not authorized or warranted for use as critical components in life support systems, equipment used in hazardous environments, nuclear controls systems, or other mission-critical applications.

Mechanical Specification

Unit:mm



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

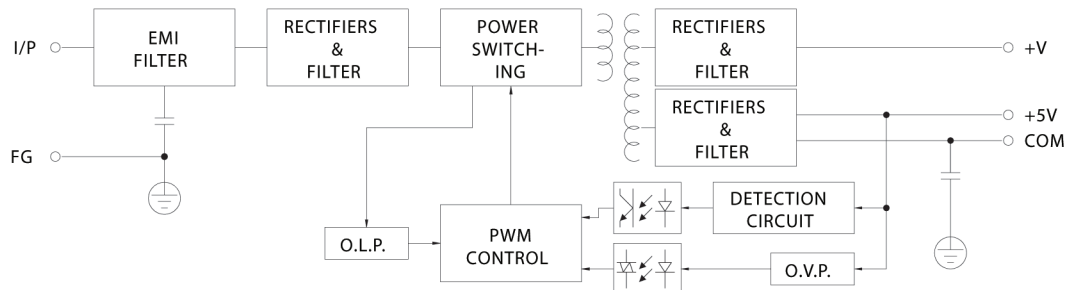
Pin No.	Assignment	Mating Housing	Terminal
1	AC/N	Molex 5195 or equivalent	Molex 5194 or equivalent
2	AC/L		

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

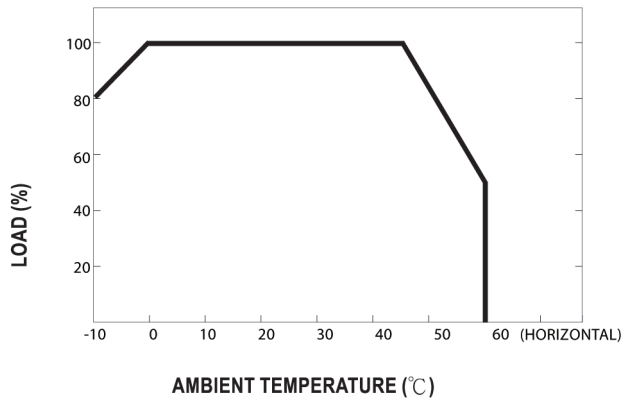
Pin No.	Assignment	Mating Housing	Terminal
1	+V	Molex 5195 or equivalent	Molex 5194 or equivalent
2,3	+5V		
4,5	COM		
6	NC		

Block Diagram

fosc : 65KHz



Derating Curve



Output Derating VS Input Voltage

