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AC/DC Open PCB

30-110 Watts

PU SERIES

MOLEX TERMINATION ■ OPEN FRAME



FEATURES

- Full range input voltage
- Input surge current protection
- Small size, light weight
- Overvoltage and overcurrent protection
- UL, CSA, VDE, CE (LVD)

PRODUCT INFORMATION

The PU30-110 series single and multi-output, open PCB, switching power supplies are rated from 30 to 110 watts. They meet international safety and EMI/RFI standards and are fitted with molex style connectors.

INPUT SPECIFICATIONS

Input Voltage	85–264VAC wide input
Frequency	47Hz–440Hz
Input Current	PU30: 0.5A @ 230VAC PU40: 0.7A @ 230VAC PU65: 1.0A @ 230VAC PU110: 1.8A @ 230VAC
Inrush Current	15A at 115VAC, 30A at 230VAC

OUTPUT SPECIFICATIONS

Output Voltage	See table
Output Voltage Adjustment	±10% by internal potentiometer V1 only
Output Current	See table
Ripple & Noise	1% (mV pk-pk)
Line Regulation	±0.5% at full load
Load Regulation	1%–3% for 5V outputs See table for others
Temperature Coefficient	±0.04% per °C
Overvoltage Protection	112%–132% of nominal V1 only
Overcurrent Protection	Yes
Transient Response	Max. excursion 4% recovering to 1% within 500µS after 25% load change.
Holdup Time	Typically 10mS

OPERATING SPECIFICATIONS

MTBF	100,000 hrs @ 25°C
Efficiency	65%–70% at full load
Isolation	Input – Output: 3000VAC Input – Ground: 1500VAC Output – Ground: 500VAC
Insulation Resistance	10MΩ output to ground
Power Fail	For PU110 models TTL logic high for normal operation and TTL low upon loss of input. This signal appears at least 1mS prior to V1 dropping 5% below nominal. Also provides delay of 100mS after V1 is within regulation

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	0°C to 50°C
Derating	Derate from 50°C: 2.5% per °C to 70°C
Relative Humidity	5%–95% non-condensing
Cooling	Convection cooled

STANDARDS AND APPROVALS

Safety	UL1950, CSA, TÜV approved, EN60950 CE LVD 73/23/EEC
C-Tick	AS/NZS2064:1997 Group 1 Class A EMC filters supplied with some models
EMI/RFI	Designed to meet limits of FCC20780 level B, VDE0878 level B

MECHANICAL SPECIFICATIONS

Dimensions / Weight	PU30: 130x70x30mm / 280g PU40: 127x76x30mm / 300g PU65: 153x89x48mm / 380g PU110: 179x108x47mm / 600g

SELECTION TABLE – SINGLE OUTPUT

MODEL NUMBER	OUTPUT		POWER CODE
PU30-10SL	5V	5A	30W
PU30-12SL	12V	2.5A	30W
PU30-13SL	15V	2A	30W
PU30-14SL	24V	1.3A	30W
PU40-10SL	5V	8A	40W
PU40-12SL	12V	3.5A	40W
PU40-13SL	15V	3A	40W
PU40-14SL	24V	2A	40W
PU65-10	5V	10A	65W
PU65-12	12V	5.5A	65W
PU65-13	15V	4.5A	65W
PU65-14	24V	3A	65W
PU110-10A	5V	22A	110W
PU110-12A	12V	9A	110W
PU110-13A	15V	7.5A	110W
PU110-14A	24V	4.5A	110W

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SELECTION TABLE – MULTI OUTPUT

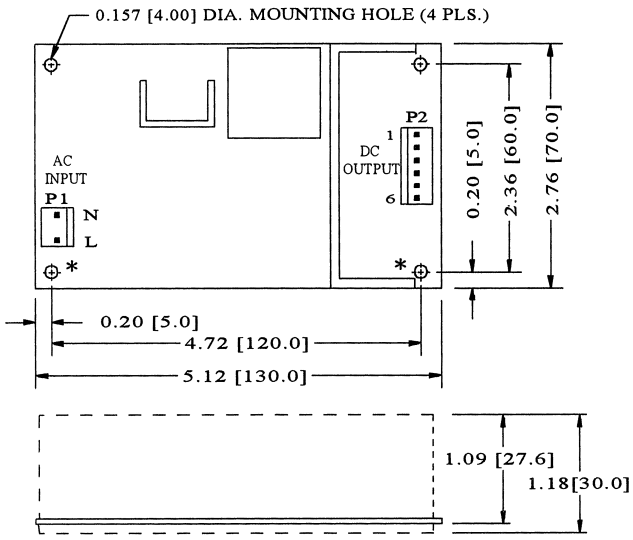
MODEL NUMBER	OUTPUT #1				OUTPUT #2				OUTPUT #3				OUTPUT #4				MAX. OUTPUT POWER
	Vnom.	Imin.	Imax.	Tol.	Vnom.	Imin.	Imax.(1)	Tol.	Vnom.	Imin.	Imax.	Tol.	Vnom.	Imin.	Imax.	Tol.	
PU30-23SL	+5V	0.3A	3A	3%	+12V	0.3A	1.5A	5%									30W
PU30-24SL	+5V	0.3A	3A	3%	+15V	0.2A	1.5A	5%									30W
PU30-25SL	+5V	0.3A	3A	3%	+24V	0.1A	1A	5%									30W
PU30-30SL	+5V	0.3A	3A	3%	+12V	0.3A	1.5A	5%	-5V	.05A	0.2A	10%					30W
PU30-31SL	+5V	0.3A	3A	3%	+12V	0.3A	1.5A	5%	-12V	.05A	0.2A	10%					30W
PU30-32SL	+5V	0.3A	3A	3%	+15V	0.2A	1.5A	5%	-15V	.05A	0.2A	10%					30W
PU30-33SL	+5V	0.3A	3A	3%	+15V	0.2A	1.5A	5%	-12V	.05A	0.2A	10%					30W
PU40-23SL	+5V	0.5A	3A	3%	+12V	0.2A	2A	5%									40W
PU40-24SL	+5V	0.5A	3A	3%	+15V	0.2A	2A	5%									40W
PU40-25SL	+5V	0.5A	3A	3%	+24V	0.1A	1A	5%									40W
PU40-30SL	+5V	0.5A	3A	3%	+12V	0.2A	2A	5%	-5V	.05A	0.3A	10%					40W
PU40-31SL	+5V	0.5A	3A	3%	+12V	0.2A	2A	5%	-12V	.05A	0.3A	10%					40W
PU40-32SL	+5V	0.5A	3A	3%	+15V	0.2A	2A	5%	-15V	.05A	0.3A	10%					40W
PU40-33SL	+5V	0.5A	3A	3%	+15V	0.2A	2A	5%	-12V	.05A	0.3A	10%					40W
PU40-39SL	+5V	0.5A	3A	3%	+24V	0.1A	1A	5%	-12V	.05A	0.3A	10%					40W
PU65-23	+5V	1A	6A	3%	+12V	0.5A	3A	5%									65W
PU65-24	+5V	1A	6A	3%	+15V	0.4A	3A	5%									65W
PU65-25	+5V	1A	6A	3%	+24V	0.3A	2A	5%									65W
PU65-30	+5V	1A	6A	3%	+12V	0.5A	3A	5%	-5V	0.1A	0.5A	10%					65W
PU65-31	+5V	1A	6A	3%	+12V	0.5A	3A	5%	-12V	0.1A	0.5A	10%					65W
PU65-32	+5V	1A	6A	3%	+15V	0.4A	3A	5%	-15V	0.1A	0.5A	10%					65W
PU65-33	+5V	1A	6A	3%	+15V	0.4A	3A	5%	-12V	0.1A	0.5A	10%					65W
PU65-35-1	+5V	1A	6A	3%	+24V	0.3A	1.2A	5%	-24V	0.2A	1.0A	10%					65W
PU65-39	+5V	1A	6A	3%	+24V	0.3A	2A	5%	-12V	0.1A	0.5A	10%					65W
PU65-40	+5V	1A	6A	3%	+12V	0.5A	3A	5%	-12V	0.1A	0.5A	10%	-5V	0.1A	0.5A	10%	65W
PU65-45-1	+5V	1A	6A	3%	+15V	0.2A	1A	5%	-12V	0.1A	1.0A	10%	+24V	0.1A	0.75A	10%	65W
PU110-23A	+5V	0A	10A	3%	+12V	0A	5A 9A	3%									110W
PU110-31A	+5V	0A	10A	3%	+12V	0A	5A 9A	3%	-12V	0A	1A	4%					110W
PU110-32A	+5V	0A	10A	3%	+15V	0A	4A 7.5A	3%	-15V	0A	1A	4%					110W
PU110-40A	+5V	0A	10A	3%	+12V	0A	5A 9A	3%	-12V	0A	1A	4%	-5V	0A	1A	4%	110W
PU110-41A	+5V	0A	10A	3%	+15V	0A	4A 7.5A	3%	-15V	0A	1A	4%	+24V	0A	1A	4%	110W
PU110-42A	+5V	0A	10A	3%	+12V	0A	5A 9A	3%	-12V	0A	1A	4%	+12V	0A	1A	4%	110W
PU110-45A	+5V	0A	10A	3%	+12V	0A	5A 9A	3%	-12V	0A	1A	4%	+24V	0A	1A	4%	110W
PU110-45-1A	+5V	2A	10A	3%	+12V	0A	5A 9A	3%	-12V	0A	1A	4%	+24V	1.5A	3A	10%	110W
PU110-45-2A	+5V	0A	10A	3%	+24V	0A	3A 5A	3%	-12V	0A	1A	4%	+12V	0A	1A	4%	110W
PU110-46A	+5V	0A	10A	3%	+15V	0A	4A 7.5A	3%	-15V	0A	1A	4%	-5V	0A	1A	4%	110W

NOTES
1. For PU110: Peak output current with 10% maximum duty cycle for less than 60 seconds and total peak power must not exceed 110 watts.
2. 100 watts maximum at 25 CFM forced air cooling or 80 watts maximum at convection cooling.

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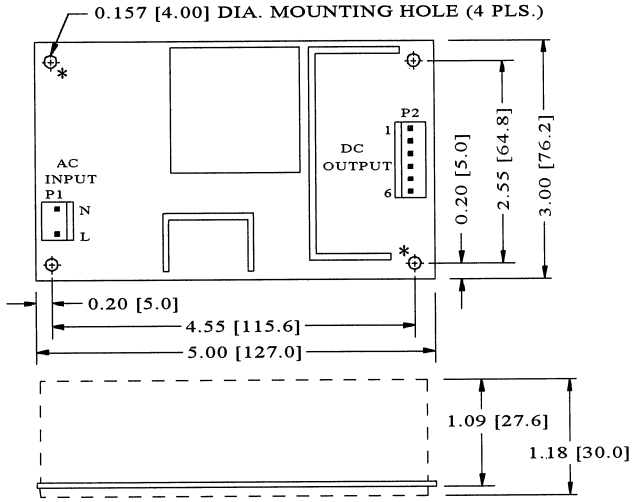
TECHNICAL DRAWINGS

PU30



NOTES
1. Dimensions shown in inch (mm)
2. Tolerance 0.02 (0.5) maximum
3. Input connector mates with Molex housing 09-50-3031 and Molex 2878 series crimp terminal.
4. Output connector mates with Molex housing 09-50-3061 and Molex 2878 series crimp terminal.
5. Weight: 280g (PCB format).
6. It is strongly recommended to connect the two "*" marked mounting holes to system chassis through metallic stand-offs. This helps reduce greatly output noise.

PU40



NOTES
1. Dimensions shown in inch (mm)
2. Tolerance 0.02 (0.5) maximum
3. Input connector mates with Molex housing 09-50-3031 and Molex 2878 series crimp terminal.
4. Output connector mates with Molex housing 09-50-3061 and Molex 2878 series crimp terminal.
5. Weight: 300g (PCB format).
6. It is strongly recommended to connect the two "*" marked mounting holes to system chassis through metallic stand-offs. This helps reduce greatly output noise.

PIN CHART

MODEL	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6
PU30-10SL PU30-12SL	OUTPUT	OUTPUT	OUTPUT	RETURN	RETURN	RETURN
PU30-13SL PU30-14SL	#1	#1	#1			
PU30-23SL PU30-24SL	OUTPUT	OUTPUT	COMMON	COMMON	N/C	OUTPUT
PU30-25SL	#1	#1	RETURN	RETURN		#2
PU30-30SL PU30-31SL	OUTPUT	OUTPUT	COMMON	COMMON	OUTPUT	OUTPUT
PU30-32SL PU30-33SL	#1	#1	RETURN	RETURN	#3	#2
PU40-10SL PU40-12SL	OUTPUT	OUTPUT	OUTPUT	RETURN	RETURN	RETURN
PU40-13SL PU40-14SL	#1	#1	#1			
PU40-18SL						
PU40-23SL PU40-24SL	OUTPUT	OUTPUT	OUTPUT	COMMON	COMMON	N/C
PU40-25SL	#2	#1	#1	RETURN	RETURN	
PU40-30SL PU40-31SL	OUTPUT	OUTPUT	OUTPUT	COMMON	COMMON	OUTPUT
PU40-32SL PU40-33SL	#2	#1	#1	RETURN	RETURN	#3
PU40-39SL						

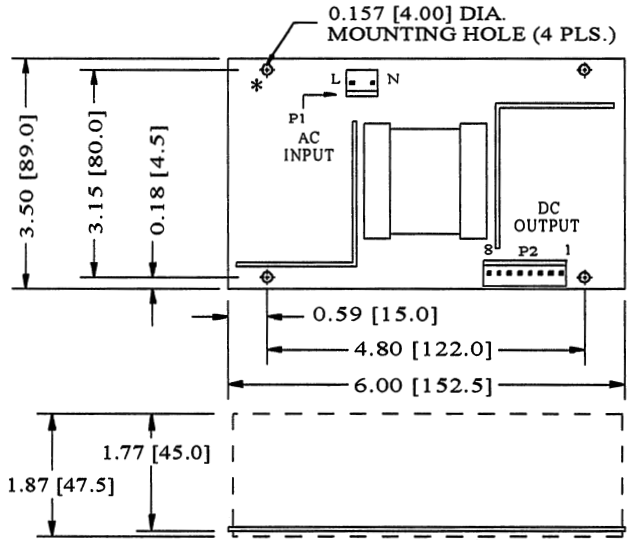
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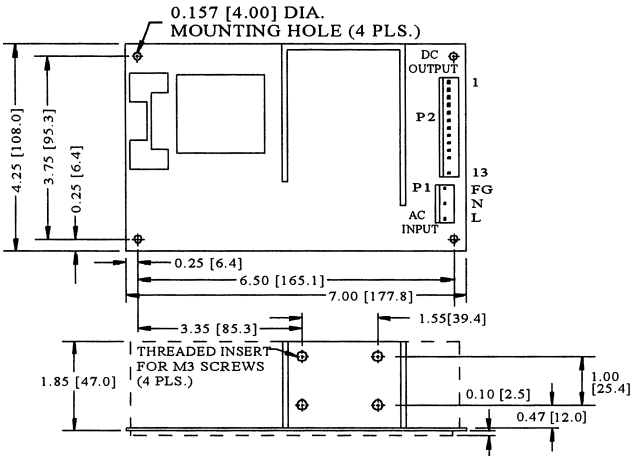
TECHNICAL DRAWINGS

PU65



NOTES
1. Dimensions shown in inch (mm)
2. Tolerance 0.02 (0.5) maximum
3. Input connector mates with Molex housing 09-50-3031 and Molex 2878 series crimp terminal.
4. Output connector mates with Molex housing 09-50-3081 and Molex 2878 series crimp terminal.
5. Weight: 380g (PCB format).
6. The "*" marked mounting hole is for system grounding through a metallic stand-off to the system chassis.

PU110



NOTES
1. Dimensions shown in inch (mm)
2. Tolerance 0.02 (0.5) maximum
3. Input connector mates with Molex housing 09-50-3051 and Molex 2878 series crimp terminal.
4. Output connector mates with Molex housing 09-50-3131 and Molex 2878 series crimp terminal.
5. Weight: 640g (PCB format).
6. The copper pad of the mounting hole near P1 is for system grounding through a metallic stand-off to system chassis.

PIN CHART

MODEL		PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7	PIN 8
PU65-10	PU65-12	OUTPUT	OUTPUT	OUTPUT	OUTPUT	RETURN	RETURN	RETURN	RETURN
PU65-13	PU65-14	#1	#1	#1	#1				
PU65-23	PU65-24	OUTPUT	OUTPUT	COMMON	COMMON	OUTPUT	OUTPUT	N/C	N/C
PU65-25		#1	#1	RETURN	RETURN	#2	#2		
PU65-30	PU65-31	OUTPUT	OUTPUT	COMMON	COMMON	OUTPUT	OUTPUT	OUTPUT	N/C
PU65-32	PU65-33	#1	#1	RETURN	RETURN	#2	#2	#3	
PU65-35-1	PU65-39								
PU65-40	PU65-45-1	OUTPUT	OUTPUT	COMMON	COMMON	OUTPUT	OUTPUT	OUTPUT	OUTPUT
		#1	#1	RETURN	RETURN	#2	#2	#3	#4
MODEL/PIN	**PIN 1,2,3**	**PIN 4,5**	**PIN 6,7**	**PIN 8,9**	**PIN 10**	**PIN 11**	**PIN 12**	**PIN 13**	
PU110-10-1A	PU110-10A	OUTPUT	RETURN	RETURN	OUTPUT	P.F.D.	N/C	KEY	N/C
PU110-12A	PU110-13A	#1			#1				
PU110-14A	PU110-16A								
PU110-23A		OUTPUT	COMMON	COMMON	OUTPUT	P.F.D.	N/C	KEY	N/C
		#1	RETURN	RETURN	#2				
PU110-31A	PU110-32A	OUTPUT	COMMON	COMMON	OUTPUT	P.F.D.	OUTPUT	KEY	N/C
		#1	RETURN	RETURN	#2		#3		
PU110-40A	PU110-41A	OUTPUT	COMMON	COMMON	OUTPUT	P.F.D.	OUTPUT	KEY	OUTPUT
PU110-42A	PU110-45A	#1	RETURN	RETURN	#2		#3		#4
PU110-45-1A	PU110-45-2A								
PU110-46A									

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