

PMMK130 series





Model Number	Output V	Output I max.	Ripple & Noise	Efficiency(min/nom)	Capacitive Load
SINGLE OUTPUT					
PMMK130S-5 (U)(-A)	5 VDC	22 Amps	100mV pk-pk	75% / 80%	10,000uF
PMMK130S-12 (U)(-A)	12 VDC	10.8 Amps	120mV pk-pk	80% / 82%	26,800uF
PMMK130S-15 (U)(-A)	15 VDC	8.7 Amps	120mV pk-pk	80% / 85%	22,000uF
PMMK130S-24 (U)(-A)	24 VDC	5.4 Amps	120mV pk-pk	82% / 85%	28,000uF
PMMK130S-28 (U)(-A)	28 VDC	4.6 Amps	120mV pk-pk	82% / 85%	16,800uF
PMMK130S-36 (U)(-A)	36 VDC	3.6 Amps	120mV pk-pk	82% / 85%	1,950uF
PMMK130S-48 (U)(-A)	48 VDC	2.7 Amps	120mV pk-pk	82% / 85%	7,800uF

Note:

1. The PMMK130 Series is offered in an optional U-Channel Chassis as well as with optional 3.96mm pitch 5 and 10 Pin Input and Output connectors (open frame construction and screw terminals are standard respectively). Simply add a "U" at the end of the Model Number to recieve the U-Channel configuration or a "-A" to receive the pins, or both if both are desired. For example: The Model Number "PMMK130S-5U-A" represents a single output 5VDC U-Channel supply with 3.96 pitched pins (5 Input; 10 Output) . See the Mechanical Dimensions on pages 3 through 8 in this specification

All "U" options are not covered by UL Certification unless provided with more than 10 CFM forced air cooling applied 6-10cm above T1.
Derating curves acceptable up tp 40°C for UL certified products

* These are stress ratings. Exposure of the devices to any of these conditions may adversely affect long term reliability. Proper operation under conditions other than the standard operating conditions is neither warranteed nor implied.

All specifications are typical at nominal input, full load, and $\rm 25^{\circ}C$ unless otherwise noted



INPUT SPECIFICATIONS

Input Voltage Range	90-264VAC (100-240VAC Nom.)		
Input Frequency Range	47-63 Hz		
Inrush Current, typ:	Cold Start, 60A @ 230VAC Input *		
Input Current	2.3~0.8A (90-264VAC)		
Power Factor (cold start)	PF > 0.96 @ 230VAC		
Leakage Current	<0.3mA @ 264VAC, 50Hz		

OUTPUT SPECIFICATIONS

See Selection Chart	
130 Watts	
1%	
0.5% nom / 1% max	
0.5% nom / 1% max	
See Selection Chart	
<4S, typ.	
20mS, typ.	
30mS, typ.	
Auto recovery *	
130% max., Auto recovery *	
150% max., Auto recovery *	
10mS	
<10% of Nominal O/P VDC	

GENERAL SPECIFICATIONS

Safety	UL/cUL:	ANSI/AAMI ES60601-1 3rd ed.	
		CSA C22.2 No. 60601-1 3rd ed.	
	UL-EU:	EN60601-1 3rd ed.	
CB:		IEC60601-1 3rd ed.	
CE:		EN60601-1-2	
Isolation (Note 3)		5656VDC I/P - O/P *	
		2828 VDC I/P - GND *	
		707VDC O/P - GND *	
Insulation Resistance		≥ 20MΩ (500VDC, 1S I/P-O/P)	
EMI		CISPR EN55011 class B	
Efficiency		See Selection Chart	
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ENVIRONMENTAL SPECIFICATIONS

-10°C to +70°C (See Derate Curve)	
-25°C to +85°C	
10 to +90%, non-cond *	
IEC61000-3-2 Class A	
IEC61000-3-3	
IEC61000-4-2, 6KV Contact, 8KV Air	
IEC61000-4-3 FR: 80MHz-2.5GHz	
Field Strength: 3V/M	
IEC61000-4-4 2KV on AC Line	
IEC61000-4-5 1KV (L-L);	
2KV (L, N-PE)	
IEC61000-4-6 3V (EMF)	
IEC61000-4-11 95% 250CY,	
70% 25CY, 40% 5CY, 5% 0.5CY	
197,000 Hrs min. MIL-HDBK-217F	
4G Pk, 50~500Hz, 3 Axes, 30 min*	
Test Height 70cm *	

PHYSICAL SPECIFICATIONS

Size	Open Frame:	76.2 x 127 x 35.5mm (3" x 5" x 1.4")
	U-Channel:	127 x 80.4 x 38mm
		(5" x 3.17" x 1.50")
Weight	Open Frame:	10.25 oz (291g)
	U-Channel:	13.38 oz (380g)

NOTES:

- 1. All measurements should be made directly at the terminals of the power supply.
- Ripple and Noise depend upon output voltage a specified per particular model.
- 3. Isolation for up to 1min duration.
- 4. Specified for free-air convection cooling.
- 5. Line regulation measured from 90 264VAC/100VAC minimum required for full load start.
- 6. Preset accuracy measured at nominal load, 120VAC input.
- 7. O/P noise measured directly at pins/terminals @ nominal load, 0uF by pass and 47uF electrolytic, pk-pk@ 20MHz bandwidth.

Special EMC Notice: The end application shall provide an earth ground connection for conducted & radiated emission performance. Astrodyne is not liable for the end application without extra earth connection to PMMK130S Open Frame Power Supply.

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MECHANICAL DIMENSIONS

Open Frame (PMMK130S-xx)





PMMK130 series

MECHANICAL DIMENSIONS U Bracket (PMMK130S-xxU)



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130W Open Frame and U-Channel Medical Switchers with PFC PMMK130 series

MECHANICAL DIMENSIONS - FAN PLACEMENT RECOMMENDATION



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ASTRODYNE USA: 1-800-823-8082 ASTRODYNE PACIFIC: 886-2-26983458

more than 10 CFM



MECHANICAL DIMENSIONS

Open Frame (PMMK130S-xx-A)





PMMK130 series

MECHANICAL DIMENSIONS U Bracket (PMMK130S-xxU-A)



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MECHANICAL DIMENSIONS - FAN PLACEMENT RECOMMENDATION



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DERATE CURVES



- 1. Convection
- 2. Forced air cooling 10CFM



Input voltage (V) Ta=25 °C

- 1. Convection
- 2. Forced air cooling 10CFM



DERATE CURVES





2. Forced air cooling 10CFM



Convection
Forced air cooling 10CFM