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TECHNOLOGY GROUP

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Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

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SKB/SKD Series Up to 100VA

Rugged, DC to AC Static Inverters



Product Highlights:

- Small size and weight
- Low harmonic distortion
- 115VAC and 28VAC output versions
- Operates from 28VDC battery source
- Input protected, transients & reverse polarity
- Output protected, short circuits, overloads & reactive loads
- Mil-Std-810D Severe Environments
- Mil-Std-704B Cat. B Spikes up to 60V$_{peak}$
- Over-Temperature Shutdown
- -55°C to 71°C

General Specifications				
	SKB-28-115-400-50	***SKD-28-115-400-100***	***SKB-28-28-400-50***	***SKD-28-28-400-100***
Input Voltage	24-30VDC	24-30VDC	24-30VDC	24-30VDC
Output Voltage	115VAC@400Hz	115VAC@400Hz	28VAC@400Hz	28VAC@400Hz
Output Power 50°C	50VA	100VA	50VA	100VA
Output Power 71°C	35VA	70VA	35VA	70VA

Electrical Specifications				
Regulation Variable	***Freq. & Voltage***	***Freq. & Voltage***	***Freq. & Voltage***	***Freq. & Voltage***
Line Reg. 24V to 30V	±0.3% ±0.5%	±0.3% to ±0.5%	±0.3% to ±0.5%	±0.3% to ±0.5%
Load Reg. (0.25A to 0.50A)	±0.3% ±2.0%	±0.3% ±2.0%	±0.3% ±2.0%	±0.3% ±2.0%
BP Temp -10°C ~+71°	±2.0% ±3.5%	±2.0% ±3.5%	±2.0% ±3.5%	±2.0% ±3.5%
Power Factor at 27VA	±0.5% ±1.0%	±0.5% ±1.0%	±0.5% ±1.0%	±0.5% ±1.0%
Frequency – consult factory 360Hz~10kHz	400Hz ±0.5% ½ Load, 28Vdc nominal input & 25°C temperature			
Waveshape Sinusoidal	6% THD max.	6% THD max.	6% THD max.	6% THD max.
Short Circuit Protection	<5 sec. duration	<5 sec. duration	<5 sec. duration	<5 sec. duration
Turn-on Overshoot	<5%	<5%	<5%	<5%
Efficiency (min)	80%	80%	80%	80%
Isolation	200VDC, Input to Output and Input to Case – 100VDC Output to Case			
Case Dimen. LxWxH	4.0”x2.5”x2.5”	5.0”x4.0”x2.5”	4.0”x2.5”x2.5”	5.0”x4.0”x2.5”

Temperature Specifications	
Operating Baseplate Temperature	-55°C to +71°C (For –55°C to +85°C range, add “T” suffix)
Non-Operating Storage Temperature	-65°C to +100°C
Temperature Coefficient	0.02%/°C

Note: Other output voltages and Environmental Screening also available. Please consult factory for details.

SKB/SKD Series

ARNOLD MAGNETICS

Arnold Magnetics Corporation, 841 Avenida Acaso, Camarillo, Ca 93012
Phone: 805/484-4221 Fax: 805/484-4113 Website: www.amcpower.com

Note: Specifications subject to change without notice. Last Update: 09/07/06

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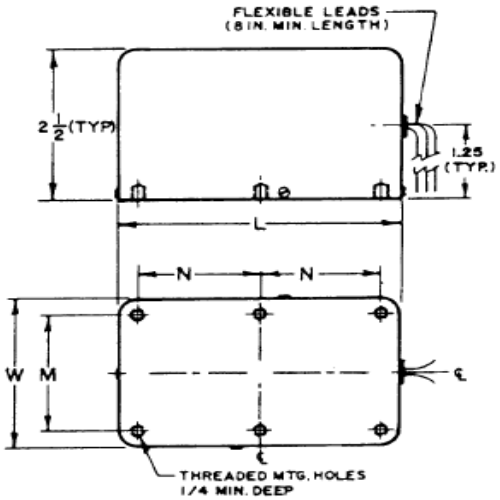
Environmental Specifications	
Pressure-Altitude	Per MIL-STD-810D, Method 500.4, Procedure I and II
High Temperature	Per MIL-STD-810D, Method 501.4, Procedure I and II
Low Temperature	Per MIL-STD-810D, Method 502.4, Procedure I
Humidity	Per MIL-STD-810D, Method 507.4, Procedure I
Fungus	Per Mil-Std-810D, Method 508.5, Procedure I
Salt Fog	Per Mil-Std-810D, Method 509.4, Procedure I
Sand and Dust	Per Mil-Std-810D, Method 510.4, Procedure I and II
Explosive Atmosphere	Per Mil-Std-810D, Method 511.4, Procedure I
Acceleration	Per MIL-STD-810D, Method 513.5, Procedure I and II
Vibration	Per MIL-STD-810D, Method 514.2, Procedure I, Table 514.2-II, Part 2 Curve B; 2g, 5-2000 Hz
Shock	Per MIL-STD-810D, Method 516.2, Procedure I, Figure 516.2-2, 15g, 11 msec. in all axis for Basic Design and 30g, 11 msec. for crash safety.

Physical Characteristics	
Maximum Case Size SKB Case "K" 50VA unit SKD Case "L" 100VA unit	2.50" H x 2.50" W x 4.00" L (Excludes flexible leads & strain relief) 2.50" H x 4.00" W x 5.00" L (Excludes flexible leads & strain relief)
Cooling Method	Conduction cooled through baseplate
Encapsulation	Clear RTV, GE615
Enclosure Finish	Black Anodized per Mil-Std-8625A, Type II, Class 2
Baseplate Finish	Gold Irridite Mil-C-5541E, Class 1A
Input/Output Termination	Input – White = + or A 24 VDC Black = - or B Return Output – Yellow = + or C 115 VRMS Green = - or D Return
Baseplate mounting – Standard	6-32 UNC Threaded Holes (6 places) x 0.125" deep
Weight	"K" case 28 oz. maximum; "L" case 56 oz. maximum

Outline and Mounting:

Output (VRMS)	Output Power (VA)	Case	Model Number
115	50	K	SKB-28-115-400-50
115	100	L	SKD-28-115-400-100
28	50	K	SKB-28-28-400-50
28	100	L	SKD-28-28-400-100

Case Size	W (Width)	H (Height)	L (length)	Mounting Holes M	N	No. Holes	Size – Depth
K	2 1/2	2 1/2	4	2.000	1.750	6	6-32NC ¼" Min.
L	4	2 1/2	5	3.420	2.210	6	8-32NC ¼" Min.



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