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Data Sheet

August 13, 2026

KGS ELECTRONICS

KGS Electronics SPC-6-1000-3PH Solid State Frequency Changer

The KGS Electronics SPC-6-1000-3PH is a solid-state frequency changer that converts single-phase 115 VAC, 50/60 Hz input into three-phase 400 Hz sine wave output for avionic test bench applications. This unit delivers stable three-phase power to equipment such as radars, compasses, gyros, and synchros that demand precision 400 Hz excitation. Overcurrent protection: 20 Amp circuit breaker (input power on/off switch) Output Power Voltage selections: - 115/200 VAC line-to-line (173 to 216 VAC adjustable) - 115/200 VAC line-to-neutral (100 to 125 VAC adjustable) - 26/45 VAC line-to-line (39.1 to 48.8 VAC adjustable) - 26/45 VAC line-to-neutral (22.6 to 28.2 VAC adjustable) Total output power: 1000 VA at 115 VAC (330 VA per phase); 225 VA at 26 VAC (75 VA per phase)



MODEL

**KGS Electronics
SPC-6-1000-3PH**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

SPC-6-1000-3PH

LISTING

<https://aumictechlabs.com/products/spc-6-1000-3ph-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The KGS Electronics SPC-6-1000-3PH is a solid-state frequency changer that converts single-phase 115 VAC, 50/60 Hz input into three-phase 400 Hz sine wave output for avionic test bench applications. This unit delivers stable three-phase power to equipment such as radars, compasses, gyros, and synchros that demand precision 400 Hz excitation. Technical

Specifications Input Power Voltage: 115 VAC $\pm$ 15 VAC Frequency: 50/60 Hz, single-phase
Overvoltage protection: Automatic shutdown above 135 VAC Overcurrent protection: 20 Amp
circuit breaker (input power on/off switch) Output Power Frequency: 400 Hz (adjustable 380 to
420 Hz) Three-phase sine wave output Voltage selections: - 115/200 VAC line-to-line (173 to 216
VAC adjustable) - 115/200 VAC line-to-neutral (100 to 125 VAC adjustable) - 26/45 VAC line-to-line
(39.1 to 48.8 VAC adjustable) - 26/45 VAC line-to-neutral (22.6 to 28.2 VAC adjustable) Total
output power: 1000 VA at 115 VAC (330 VA per phase); 225 VA at 26 VAC (75 VA per phase)
Waveform distortion: 2% THD typical Power factor: 0.8 to -0.95 Protection & Overload Delivers
150% overload for minimum 5 minutes Withstands short circuits for minimum 1 minute Shutdown
thresholds: Below 375 Hz (under frequency), above 425 Hz (over frequency), above 130 VAC
(over voltage) Physical & Environmental Operating temperature: -40°C to +71°C Thermostatically
controlled internal fan cooling Dimensions (19" relay rack mount): 17"W $\times$ 13"D $\times$ 7"H Weight: 35
lbs Front panel connector: MS3106A24-11P Rear panel: 6-32 terminal block Key Features
Adjustable frequency and voltage output Compact rack-mount form factor Wide operating
temperature range Short-circuit and overload rated Low harmonic distortion (2% THD) Typical
Applications Test bench verification of three-phase avionic systems including navigation
compasses, heading gyroscopes, synchro equipment, and radar platforms requiring stable 400
Hz excitation. Compatibility & Integration Alternative models SPC-6-1000-3PH-230 and SPC-6-
1000-3PHC support 230 VAC, 50 Hz input operation.

SPC610003PH Characteristics / Specifications

PARAMETER	VALUE
Model	SPC-6-1000-3PH
Manufacturer	KGS Electronics
Instrument Type	Solid state three phase frequency changer
Series	SPC6
Alias	SPC6-1000-3PH; SPC-6-1000-3PH
Input Voltage	115 Vac plus/minus 15 Vac
Input Frequency	50/60 Hz
Input Phase	single
Input Overvoltage Shutoff	above 135 Vac
Input Breaker	20 A, also power on off
Output 115 LN	100 to 125 Vac line to neutral adjustable
Output 115 LL	173 to 216 Vac line to line adjustable
Output 26 LN	22.6 to 28.2 Vac line to neutral adjustable
Output 26 LL	39.1 to 48.8 Vac line to line adjustable
Output Power 1	1000 VA total, 330 VA per phase
Output Power	225 VA total, 75 VA per phase
Output Frequency	400 Hz, 380 to 420 Hz adjustable
Output Phase	3 phase
Waveform	sine
Amplitude Distortion	2 percent THD typical
Power Factor	0.8 to minus 0.95
Overload	150 percent for at least 5 minutes
Short Circuit Withstand	1 minute minimum
Underfrequency Shutoff	below 375 Hz
Overfrequency Shutoff	above 425 Hz

PARAMETER	VALUE
Overvoltage Shutoff	above 130 Vac
Temperature	minus 40 C to +71 C
Weight	35 lb
Size	17 inWx 13 inDx 7 inHfor 19 inch rack
Cooling	internal fan thermostatically controlled
Front Connector	MS3106A24-11P (AN-3106A24-11P with AN-3057-16 clamp)
Rear Connections	6-32 terminal block
Sibling 230 V	SPC-6-1000-3PH-230 and SPC-6-1000-3PHC
Compared Single Phase	SPC-6-750A 750 VA 1 ph same footprint
Form	19 inch rack 3 phase frequency changer Notes Specs from KGS Electronics SPC6-1000-3PH published specification table. Confirm 115 versus 230 V input and MS connector versus rear terminal wiring.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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PARAMETER	VALUE
Model	SPC-6-1000-3PH
Manufacturer	KGS Electronics
Instrument Type	Solid state three phase frequency changer
Specifications	
PARAMETER	VALUE
Series	SPC6
Alias	SPC6-1000-3PH; SPC-6-1000-3PH
Input Voltage	115 Vac plus/minus 15 Vac
Specifications	
PARAMETER	VALUE
Input Frequency	50/60 Hz
Input Phase	single
Input Overvoltage Shutoff	above 135 Vac
Specifications	
PARAMETER	VALUE
Input Breaker	20 A, also power on off
Output 115 LN	100 to 125 Vac line to neutral adjustable
Output 115 LL	173 to 216 Vac line to line adjustable
Specifications	
PARAMETER	VALUE
Output 26 LN	22.6 to 28.2 Vac line to neutral adjustable
Output 26 LL	39.1 to 48.8 Vac line to line adjustable
Output Power 115	1000 VA total, 330 VA per phase

Specifications

PARAMETER	VALUE
Output Power 26	225 VA total, 75 VA per phase
Output Frequency	400 Hz, 380 to 420 Hz adjustable
Output Phase	3 phase

Specifications

PARAMETER	VALUE
Waveform	sine
Amplitude Distortion	2 percent THD typical
Power Factor	0.8 to minus 0.95

Specifications

PARAMETER	VALUE
Overload	150 percent for at least 5 minutes
Short Circuit Withstand	1 minute minimum
Underfrequency Shutoff	below 375 Hz

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PARAMETER	VALUE
Overfrequency Shutoff	above 425 Hz
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Temperature	minus 40 C to +71 C

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Weight	35 lb
Size	17 inWx 13 inDx 7 inHfor 19 inch rack
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Specifications

PARAMETER	VALUE
Front Connector	MS3106A24-11P (AN-3106A24-11P with AN-3057-16 clamp)
Rear Connections	6-32 terminal block
Sibling 230 V	SPC-6-1000-3PH-230 and SPC-6-1000-3PHC

Compared Single Phase: SPC-6-750A 750 VA 1 ph same footprint

Form: 19 inch rack 3 phase frequency changer

Notes

Specs from KGS Electronics SPC6-1000-3PH published specification table. Confirm 115 versus 230 V input and MS connector versus rear terminal wiring.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.