

UniStar II

Single-Phase UPS ■ On-Line ■ 6 & 10 kVA

Staco Energy Products Co. is a leading manufacturer of AC voltage control products and UPS systems. Our expertise in providing solutions to electrical power problems stems from over 60 years of experience building standard as well as custom designed products for both military and private sectors.

The UniStar II UPS is designed to meet the power protection needs of today's sensitive electronic equipment and computer loads. With over 25 years of application experience, we know that UPS reliability begins with its design. With a true On-Line, double conversion design, the UniStar II provides both regulated output voltage and frequency. The input has been power factor corrected and designed to reflect harmonic distortion of less than 6% THD back to the input system. The UPS output is designed to provide a pure sine wave output with less than 3% THD. This low distortion output sine wave, coupled with a crest factor of 3:1 allows the UniStar II to provide a very reliable output power to any combination of linear and non-linear loads. A wide voltage input range reduces battery discharge cycling under brownout conditions, extending the battery life and assuring that the battery backup power will be available when needed.

The UniStar II microprocessor controller manages a variety of functions. First, special circuitry has been incorporated into the UniStar II to protect and lengthen the service life of the most sensitive component of the UPS system... its batteries. Other controller functions include UPS self-diagnosis testing, and the operation of the front panel display, which reports the status of the UPS: On-Line, On-Battery, Bypass, Overload, Low Battery and System Fault.

The UniStar II is available in 6, 8 or 10 kVA ratings. The universal models (catalog number ending in "4") are equipped with an output attenuation and increased output voltage selection. Other options available are extended runtimes and custom design options. Protect your mission-critical equipment with the best -- the new generation UniStar II UPS.

Advantages:

- *On-Line, Double Conversion*
- *Regulated Output Voltage Frequency*
- *Input PF Corrected, Less Than 6% THD*
- *Wide Input Voltage Range*
- *Full-Time Lightning and Surge Protection*
- *Self-Diagnostic Testing*
- *Flexible, Extended Runtime*



General Specifications

AC Input Characteristics	
Voltage:	170-276 VAC
Frequency:	50/60 Hz., auto selection
Power Factor:	> .97
Harmonic Distortion:	<6%

AC Output Characteristics	
Voltage:	As listed below
Frequency:	50/60 Hz. +/- 5%, phase lock to input, +/- 0.5% of nominal, normal operation
Voltage Regulation:	+/- 3%
Harmonic Distortion:	+/- 3% THD, linear load +/- 7% THD, non-linear load
Overload Capacity:	105% for 15 seconds 130% for 8 seconds
Full Load PF:	.7
Crest Factor:	3:1

Safety	
<ul style="list-style-type: none"> ■ Listed to UL 1778/EN50091-1 ■ Electromagnetic Immunity: IEC 801-2 level IV, 801-5 level III ■ EMC Verification: FCC Class A/EN50091-2 	

Options	
<ul style="list-style-type: none"> ■ I/O configurations ■ Extended battery runtime ■ Custom designs 	

System Characteristics	
Efficiency:	> 85%
Surge Protection:	Compliance with ANSI/IEEE C62.41 Category A and B for lighting and surge protection
Battery System	
Runtime:	See below
Typical recharge:	< 3 hours to 90% capacity
Communication Ports:	RS232 interface port
Audible Noise:	<60 dBA

Environmental	
Ambient Temperature:	0 - 40 C
Relative Humidity:	0 - 90% non-condensing
Operating Altitude:	0 - 10,000 ft.
Storage Temperature:	-15 to +45° C
Ventilation:	Fan cooling

Controls, Status & Alarms	
<ul style="list-style-type: none"> ■ Input Circuit Breaker ■ Output Circuit Breaker ■ LED Indicators: On Line, On Battery, Bypass, Overload, Battery Low, and Fault 	

Battery Runtime							
%FL (minutes)	6 kVA			10 kVA			
	50	75	100	50	75	100	
Internal	25	14	8	25	12	7	
EXL	1-SGBP6	135	83	54	85	51	35
	2-SGBP6	293	174	120	172	94	63

How To Order							
Catalog Number	Rating	Input Voltage	Output Voltage	Hz	Input & Output Connections	Dimensions (inches) H x W x D	Weight (lbs.)
SG0603	6 kVA 4.2 kW	170 - 276 VAC	208, 220, 230, 240	50/60	Hardwired	31.5 x 10.25 x 23.5	201
SG0604			120, 120/120, 120/208, 120/240, 208, 240				296
SG1003	10 kVA 7 kW	176 - 276 VAC	208, 220, 230, 240			38.0 x 13.5 x 26.5	410
SG1004			120, 120/120, 120/208, 120/240, 208, 240				532

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