Sorensen SGX Series

Programmable Precision High Power DC Power Supply

- High Power Density: Up to 15 kW in 3U, 30 kW in a 6U chassis
- Wide Voltage Range: 0-10V up to 0-1000V, from 4 to 30 kW
- Fast Load Transient Response: Protection from undesired voltage excursions
- Low Ripple and Noise
- Intuitive Touch Screen Display
- Parallelable up to 150 kW
- Sequencing: Free system controller & speed up test
- Low audible noise: Temperature controlled variable speed fans

Next Generation DC Supply

The Sorensen SGX Series represents the next generation of high power programmable DC power supplies. The SGX Series is designed for exceptional load transient response, low noise and the highest power density in the industry. With a full 15 kW available down to 20 V output in a 3U package the SGX leads the industry in power density. The power density is enhanced by a stylish front air intake allowing supplies to be stacked without any required clearance between units.

At the heart of the SGX series is a 5 kW power module. Depending on the output voltage, one to six modules can be configured in a single chassis to deliver 5 kW to 30 kW of power.

Combinations of these chassis can then be easily paralleled to achieve power levels up to 150 kW. Paralleled units operate like one single supply providing total system current.



10-1000V

4-150 kW

5-6000 A 208 400 480 ETHERNET € € ↓ KS232

Advanced Intelligent Control

The SGX combines onboard intelligent controls with the outstanding power electronics common to all SG family supplies. These controls enable sophisticated sequencing, constant power mode and save/recall of instrument settings. Looping of sequences makes the SGX ideal for repetitive testing.

The SGX Series is operated from the intuitive, easy-to-use front panel touch screen display. Quickly access output programming parameters, measurements, sequencing, configuration and system settings from the touch screen interface. Functions and parameters can be directly selected from the touch screen or by using the encoder selector button. The control resolution is adjusted by a dynamic rate change algorithm that combines the benefits of precise control over small parameter changes with quick sweeps through the entire range.

Additionally, the instrument can be controlled via LXI Ethernet and RS232 standard control interfaces, as well as through the optional GPIB control interface. AMETEK Programmable Power 9250 Brown Deer Road San Diego, CA 92121-2267 USA



SGX Series : Product Specifications

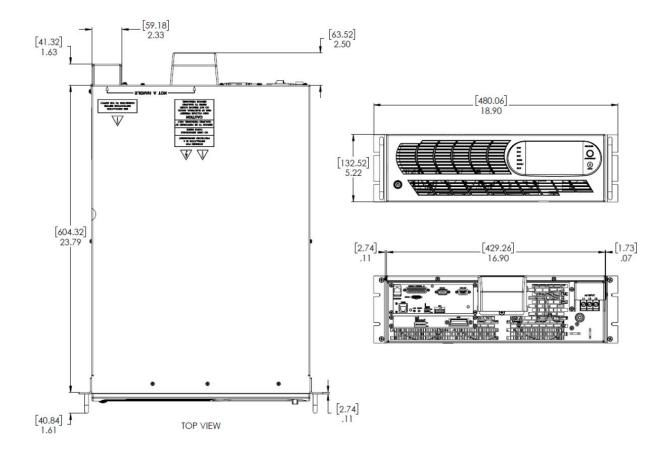
Common										
RemoteSense		Terminals are provided to sense output voltage at point of load. Maximum line drop 5% of rated voltage per line for 40-100V models, line drop 1V of rated voltage per line for 10-20V models, 1.5V for 30V models, 2% of rated voltage per line for models 160V and greater. (Greater line drop is allowed, but output regulation specifications no longer apply).								
Parallel Operation		Up to 5 units may be paralleled for additional current within the power supply single-unit specifications, with exception of the DC output current set accuracy. Additional paralleled SG units will add 0.3% inaccuracy per unit. To parallel more than 5 units, contact factory.								
Series Operation		Up to 2 units	(see Output Float	Voltage)						
Input		'								
Nominal Voltage 3 phase, 3 wire + ground		208/230VAC (operating range 187 - 253VAC) 380/400VAC (operating range 342 - 440VAC) 440/480VAC (operating range 396 - 528VAC)								
Frequency		47–63Hz,40	0Hz (400Hz @ 20	8VAC, for 6	6U units is optional modifi	cation and does n	ot carry CE, UL or CSA markings)			
Power Factor (at full rated load; !	50/60Hz)	Power factor		mined by	power supply input chara e source impedance of AG		lependent on the level of			
Protection (typical))	'	ough, typical, ona 00V model 6.4 ms		ases, 3 cycleride through of phases)	n singlephase; mis	singphase			
Programming 8	t Read-back Spe	cifications	(with sense w	vires use	ed)					
		Programming			Read-Back / Monit	oring				
	Accur	асу	Resolution		Accuracy	Resolution	-			
Front Panel Display	SGX (40-1000V) +/- 0.1% of voltage at full scale SGX (40-1000V) +/- 0.4% of current at full scale		SGX: 4.0digits	SGX, Voltage: +/-0.1% of full scale SGX, Current: +/-0.4% of full scale		SGX: 4.0 digits	Knob control & Display read-back			
	SGX (10-30V) 0.1% of setpoint +0.1% of voltage rating SGX (10-30V) 0.1% of setpoint +0.4% of current rating			SGX (10-30V) 0.1% of actual +0.15% voltage rating						
Remote Analog Interface	Voltage +/-0.25% of full scale Current (40-1000V) 0.8% of full scale , (10-30V) 1.0% of full scale		NA	(40-1000V) +/-1.0% of full scale (10-30V) +/-0.5% of full scale		NA	25-pin D-sub connector (0~5 V or 0~10 V			
Remote Digital Interface	Voltage: +/- 0.1% of full scale, Current: +/- 0.4% of full scale		+/-0.002% of full scale	Voltage: +/-0.1% of full scale Current: +/-0.4% of full scale		+/-0.002% of full scale	LXI Compliant 10/100 base-T Ethernet and RS-232C (Standard on SGX), Optional IEEE-488.2 Optional (see Options)			
OVP	+/- 1% of full scale		+/-0.002% of full scale				Programming range: 5-110% Configured from front panel, remote analog or via optional digital inputs			
User I/O	Disconnect & Polarity-reversal relay control (Only available with Ethernet Option) Digital 10-pin Molex type connector									
Software	IVI & CVI drivers av	ailable under S	UPPORT at: www	.Programn	nablePower.com					
Physical		3UM	odels (10V-30	V)	3UModels (40)	/-1000V)	6U Models(60V-600V)			
Width		19.00 in(48.3	cm)		19.00 in(48.3 cm)		19.00 in (48.3 cm)			
Depth		28.0 in(71.1 cm)			26.3 in (66.8 cm)		27.1 in (68.8 cm)			
Height		5.25 in(13.3 cm)			5.25 in(13.3 cm)		10.5 in (26.7 cm)			
Weight		(4kW, 10V 15V) ≈<65 lbs (29 kg) (5kW, 20V 30V) ≈<65 lbs (29 kg) (8kW, 10V 15V) ≈<85 lbs (39 kg) (10kW, 20V 30V) ≈<85 lbs (39 kg) (12kW, 10V 15V) ≈<110 lbs (50 kg) (15kW, 20V 30V) ≈<110 lbs (50 kg)			(5kW) ≈ ≤60 lbs (27 kg) (10kW) ≈ ≤75 lbs (34 kg) (15kW) ≈ ≤90 lbs (41 kg)		(20kW)≈≤140 lbs (64 kg) (25kW)≈≤155 lbs (71 kg) (30kW)≈≤170 lbs (78 kg)			
Shipping Weight		Contact facto	ry for more produ	uct & shipp	bing weights					

SGXSeries:ProductSpecifications

Output									
Ripple & Noise (Voltage Mode, Typical)	See Output:Vol ft. cable, 1µF a	-	t Ranges Cha	rt below. Ripple a	nd noise specif	ied at full load, n	ominal AC input. Noise	measured with 6	
Output Rise Time (40-1000V)	≈<100 ms 10-90	0%offull scal	etypical-ful	resistive load (Co	ontactfactoryf	or model specif	fic slew rates)		
Output Voltage Dise Time (10, 2011)	Rise Time, ms, max Condition								
Output Voltage Rise Time (10-30V)	10			Measured from 10% to 90% of the outpour voltage change – resistive load, typic				e load, typical	
	Fall Time, ms max			Condition					
OutputVoltageFallTime(10-30V)	No Load	100% (CC Load	ad 100% CR Load Measured from 90% to 10% of the output voltage change					
	50		0	100% CR L080	resistive load, typical			e change	
	RiseTime, ms max Condition								
Output Current Rise Time (10-30V)	20 Measured from 10% to 90% of the output current c						t change - resistive loa	d typical	
	Fall Time, ms n			ndition			t change - resistive loa	u, typicai	
OutputCurrentFallTime(10-30V)	10	IdA			% to 10% of th		at change resistive le	ad turnical	
Line Regulation (with sense wires used)									
Load Regulation (with sense wires used)	(no load to full load, nominal AC input). Voltage Mode: +/- 0.02% of full scale (40-800V) Current Mode: +/- 0.1% of full scale Voltage Mode: +/- 0.05% of full scale (10-30V)								
Load Transient Response	Recovers withi	n 1ms to +/-0	.75% of full-s	cale of steady-st	ateoutputfora	a 50% to 100% o	r 100% to 50% load cha	nge	
Efficiency	Recovers within 1ms to +/-0.75% of full-scale of steady-state output for a 50% to 100% or 100% to 50% load change 87% typical at nominal line and max load								
Stability	±0.05% of set point after 30 minute warm-up and over 8 hours at fixed line, load and temperature, typical								
Temperature Coefficient	0.02%/Cofmaximum output voltage rating for voltage set point, typical 0.03%/Cofmaximum output current rating for current set point, typical								
remperature coefficient				ngforcurrentset					
Output Float Voltage	0.03%/Cofmax Negativetermin	kimumoutpu nalwithin+/-:	t current rati 300 V of chas	sispotential. (We	point, typical erecommendt		alisolated analog Interf em.	face.)	
Output Float Voltage	0.03%/Cofmax Negativetermin Supplies in "ser	kimumoutpu nalwithin+/-:	t current rati 300 V of chas	-	point, typical erecommendt			face.)	
	0.03%/Cofmax Negativetermin Supplies in "ser	kimumoutpu nalwithin+/-:	t current rati 300 V of chas	sispotential. (We	point, typical erecommendt		em.	·	
Output Float Voltage Output: Voltage and Current Rang	0.03%/Cofmax Negative termin Supplies in "ser	kimum outpu nalwithin+/-: ies" have a sy 3U	t current rati 300V of chas ystem curren	is potential. (We	point, typical erecommend th vest current su 6U	pply in the syst	em. Ripple 8	t Noise	
Output Float Voltage Output: Voltage and Current Rang Power	0.03%/Cofmax Negativetermin Supplies in "ser	kimum outpu nal within +/-: ies" have a sy	tcurrentrati 300V of chas ystem curren 12/15 kW	is potential. (We nt limit of the lov	point, typical precommend the vest current su		em.	t Noise p-p	
Output Float Voltage Output: Voltage and Current Rang	0.03%/Cofmax Negativetermin Supplies in "ser ges 4/5 kW	kimum outpu nal within +/- : ies" have a sy 3U 8/10 kW	tcurrentrati 300V of chas ystem curren 12/15 kW Ci	is potential. (We tt limit of the lov 16/20 kW urrent	point, typical erecommend th vest current su 6U 20/25 kW	pply in the syst 24/30 kW	em. Ripple 8 rms (20 Hz-300 kHz)	p-p (20 Hz-20 MHz)	
Output Float Voltage Output: Voltage and Current Rang Power Voltage	0.03%/Cofmax Negative termin Supplies in "ser	kimum outpu nalwithin+/-: ies" have a sy 3U	tcurrentrati 300V of chas ystem curren 12/15 kW	is potential. (We nt limit of the lov	point, typical erecommend th vest current su 6U	pply in the syst	em. Ripple 8 rms	t Noise p-p	
Output Float Voltage Output: Voltage and Current Rang Power Voltage 10	0.03%/Cofmax Negativetermin Supplies in "ser es 4/5 kW 400	kimum outpu nalwithin +/- ies" have a sy 3U 8/10 kW 800	t current rati 300V of chas ystem curren 12/15 kw Cu 1200	16/20 kW 1600*	point, typical recommend ti vest current su 6U 20/25 kW 2000*	24/30 kW 2400*	em. Ripple 8 rms (20 Hz-300 kHz) 20 mV	p-p (20 Hz-20 MHz) 50 mV	
Output Float Voltage Output: Voltage and Current Range Power Voltage 10 15	0.03%/Cofmax Negativetermin Supplies in "ser es 4/5 kW 400 267	kimum outpu nal within +/-: ies" have a sy 3U 8/10 kW 800 534	tcurrentrati 300V of chas ystem curren 12/15 kw Ct 1200 801	16/20 kW 16/20 kW 16/20 kW 16/20 kW	erecommend the set of	24/30 kW 2400* 1602*	em. Ripple 8 (20 Hz-300 kHz) 20 mV 20 mV	p-p (20 Hz-20 MHz) 50 mV 50 mV	
Output Float Voltage Output: Voltage and Current Range Power Voltage 10 15 20	0.03%/Cofmax Negativetermin Supplies in "ser ges 4/5 kW 400 267 250	kimum outpu nal within +/-: ies" have a sy 3U 8/10 kW 800 534 500	tcurrentrati 300V ofchas ystem current 12/15 kW CC 1200 801 750	is potential. (We tt limit of the lov 16/20 kW urrent 1600* 1068* 1000*	erecommend til vest current su 6U 20/25 kW 2000* 1335* 1250*	24/30 kW 2400* 1602* 1500*	em. Ripple 8 (20 Hz-300 kHz) 20 mV 20 mV 20 mV 20 mV	p-p (20 Hz-20 MHz) 50 mV 50 mV 60 mV	
Output Float Voltage Output: Voltage and Current Range Power Voltage 10 15 20 30	0.03%/Cofmax Negativetermin Supplies in "ser ges 4/5 kW 400 267 250 167	kimum outpu nal within +/-: ies" have a sy 3U 8/10 kW 800 534 500 334	t current rati 300V of chas ystem current 12/15 kW Cr 1200 801 750 501	is potential. (We tt limit of the low 16/20 kW urrent 1600* 1068* 1000* 668*	erecommend til vest current su 6U 20/25 kW 2000* 1335* 1250* 835*	24/30 kW 2400* 1602* 1500* 1002*	em. Ripple 8 rms (20 Hz-300 kHz) 20 mV 20 mV 20 mV 20 mV 20 mV 20 mV	t Noise p-p (20 Hz-20 MHz) 50 mV 50 mV 60 mV 60 mV	
Output Float Voltage Output: Voltage and Current Range Voltage 10 15 20 30 40	0.03%/Cofmax Negativetermin Supplies in "ser es 4/5 kW 400 267 250 167 125	kimum outpu nal within +/-: ies" have a sy 3U 8/10 kW 800 534 500 334 250	t current rati 300V of chas ystem current 12/15 kW Cr 1200 801 750 501 375	is potential. (We tt limit of the low 16/20 kW urrent 1600* 1068* 1000* 668* 500*	erecommend ti vest current su 6U 20/25 kW 2000* 1335* 1250* 835* 625*	24/30 kW 2400* 1602* 1500* 1002* 750*	em.	P-P (20 Hz-20 MHz) 50 mV 50 mV 60 mV 60 mV 75 mV	
Output Float Voltage Output: Voltage and Current Range Voltage 10 15 20 30 40 50	0.03%/Cofmax Negativetermin Supplies in "ser es 4/5 kW 400 267 250 167 125 100	kimum outpu nal within +/-: ies" have a sy 3U 8/10 kW 800 534 500 334 250 200	tcurrentrati 300V of chas ystem current 12/15 kW Cl 1200 801 750 501 375 300	16/20 kW Inverte 1600* 1068* 1000* 668* 500* 400*	erecommendtl vest current su 6U 20/25 kW 2000* 1335* 1250* 835* 625* 500*	24/30 kW 2400* 1602* 1500* 1002* 750* 600*	em.	b Noise p-p (20 Hz-20 MHz) 50 mV 50 mV 60 mV 60 mV 75 mV 75 mV	
Output Float Voltage Output: Voltage and Current Range Voltage 10 10 15 20 30 40 50 60	0.03%/Cofmax Negativetermin Supplies in "ser ges 4/5 kW 400 267 250 167 125 100 83	kimum outpu nal within +/-: ies" have a sy 3U 8/10 kW 800 534 500 334 250 200 167	tcurrentrati 300V of chas ystem current 12/15 kW CC 1200 801 750 501 375 300 250	is potential. (We tit limit of the low 16/20 kW urrent 1600* 1068* 1000* 668* 668* 500* 400* 333	erecommend til vest current su 6U 20/25 kW 2000* 1335* 1250* 835* 625* 500* 417	24/30 kW 2400* 1602* 1500* 1002* 750* 600* 500	em. Ripple 8 rms (20 Hz-300 kHz) 20 mV	t Noise P-P (20 Hz-20 MHz) 50 mV 50 mV 60 mV 60 mV 75 mV 75 mV 75 mV	
Output Float Voltage Output: Voltage and Current Range Power Voltage 10 10 15 20 30 40 50 60 75	0.03%/Cofmax Negativetermin Supplies in "ser es 4/5 kW 400 267 250 167 125 100 83 67	kimum outpu nal within +/-: ies" have a sy 3U 8/10 kW 800 534 500 334 250 200 167 133	tcurrentrati 300V ofchas ystem current 12/15 kW Cr 1200 801 750 501 375 300 250 200	is potential. (We tt limit of the low 16/20 kW urrent 1600* 1068* 1000* 668* 500* 400* 333 267	Ppoint, typical Precommend the vest current survey 6U 20/25 kW 2000* 1335* 1250* 835* 625* 500* 417 333	24/30 kW 2400* 1602* 1500* 1002* 750* 600* 500 400	em. Ripple 8 rms (20 Hz-300 kHz) 20 mV 20 mV	t Noise P-P (20 Hz-20 MHz 50 mV 50 mV 60 mV 60 mV 75 mV 75 mV 75 mV 100 mV	
Output Float Voltage Output: Voltage and Current Range Voltage Voltage 10 10 15 20 30 40 50 60 60 75 80	0.03%/Cofmax Negativetermin Supplies in "ser es 4/5 kW 400 267 250 167 125 100 83 67 63	kimum outpu nal within +/-: ies" have a sy 3U 8/10 kW 800 534 500 334 250 200 167 133 125	tcurrentrati 300V ofchas ystem current 12/15 kW Cr 1200 801 750 501 375 300 250 200 188	16/20 kW 16/20 kW urrent 1600* 1068* 1000* 668* 500* 400* 333 267 250	Ppoint, typical Precommend ti vest current su 6U 20/25 kW 2000* 1335* 1250* 835* 625* 500* 417 333 313	24/30 kW 2400* 1602* 1500* 1002* 750* 600* 500 400 375	em.	t Noise P-P (20 Hz-20 MHz) 50 mV 50 mV 60 mV 60 mV 75 mV 75 mV 75 mV 100 mV 100 mV	
Output Float Voltage Output: Voltage and Current Range Voltage 10 15 20 30 40 50 60 50 60 75 80 100	0.03%/Cofmax Negativetermin Supplies in "ser es 4/5 kW 400 267 250 167 125 100 83 67 63 50	kimum outpu nalwithin +/-: ies" have a sy 3U 8/10 kW 800 534 500 334 250 200 167 133 125 100	tcurrentrati 300V of chas ystem current 12/15 kW Cr 1200 801 750 501 375 300 250 200 188 150	16/20 kW 16/20 kW urrent 1600* 1068* 1000* 668* 500* 400* 333 267 250 200	Ppoint, typical Precommend ti vest current su 6U 20/25 kW 2000* 1335* 1250* 835* 625* 500* 417 333 313 250	24/30 kW 2400* 1602* 1500* 1002* 750* 600* 500 400 375 300	em.	b Noise P-P (20 Hz-20 MHz 50 mV 50 mV 60 mV 60 mV 60 mV 75 mV 75 mV 75 mV 100 mV 100 mV 100 mV	
Output Float Voltage Output: Voltage and Current Range Voltage 10 15 20 30 40 50 60 50 60 75 80 100 160	0.03%/Cofmax Negativetermin Supplies in "ser es 4/5 kW 400 267 250 167 125 100 83 67 63 50 31	kimum outpu nalwithin +/-: ies" have a sy 3U 8/10 kW 800 534 500 334 250 200 167 133 125 100 63	tcurrentrati 300V of chas ystem current 12/15 kW CC 1200 801 750 501 375 300 250 200 188 150 94	16/20 kW 16/20 kW 1000* 1000* 668* 500* 400* 333 267 250 200 125	point, typical recommend ti vest current su 20/25 kW 2000* 1335* 1250* 835* 625* 500* 417 333 313 250 156	24/30 kW 2400* 1602* 1500* 1002* 750* 600* 500 400 375 300 188	em.	t Noise P-P (20 Hz-20 MHz 50 mV 50 mV 60 mV 60 mV 75 mV 75 mV 75 mV 100 mV 100 mV 100 mV 100 mV	
Output Float Voltage Output: Voltage and Current Range Power Voltage 10 15 20 30 40 50 60 75 80 100 160 200	0.03%/Cofmax Negativetermin Supplies in "ser ges 4/5 kW 400 267 250 167 125 100 83 67 63 63 50 31 25	kimum outpu nal within +/-: ies" have a sy 3U 8/10 kW 800 534 500 334 250 200 167 133 125 100 63 50	tcurrentrati 300V ofchas ystem current 12/15 kW Ct 1200 801 750 501 375 300 250 200 188 150 94 75	16/20 kW urrent 160/20 kW 106/20 kW urrent 1000* 668* 500* 400* 333 267 250 200 125 100	Ppoint, typical Precommend ti vest current sur 6U 20/25 kW 2000* 1335* 1250* 835* 625* 500* 417 333 313 250 156 125	24/30 kW 2400* 1602* 1500* 1002* 750* 600* 500 400 375 300 188 150	em.	t Noise P-P (20 Hz-20 MHz 50 mV 50 mV 60 mV 60 mV 75 mV 75 mV 75 mV 100 mV 100 mV 100 mV 150 mV 150 mV	
Output Float Voltage Output: Voltage and Current Range Power Voltage 10 15 20 30 40 50 60 75 80 100 160 200 20 30 40 50 60 75 80 100 200 200 200 200	0.03%/Cofmax Negativetermin Supplies in "ser es 4/5 kW 400 267 250 167 250 167 125 100 83 67 63 63 50 31 25 31 25 20	kimum outpu nal within +/-: ies" have a sy 3U 8/10 kW 800 534 500 334 250 200 167 133 125 100 63 50 63 50 40	t current rati 300V of chas ystem current 12/15 kW Cr 1200 801 750 501 375 300 250 200 188 150 94 75 60	16/20 kW 16/20 kW urrent 1600* 1068* 1000* 668* 500* 400* 333 267 250 200 125 100 80	Ppoint, typical Precommend ti vest current sur 6U 20/25 kW 2000* 1335* 1250* 835* 625* 500* 417 333 313 250 156 125 100	24/30 kW 24/00* 1602* 1500* 1002* 750* 600* 500 400 375 300 188 150 120	em.	b Noise D-P (20 Hz-20 MHz 50 mV 50 mV 60 mV 60 mV 60 mV 75 mV 75 mV 75 mV 100 mV 100 mV 100 mV 100 mV 100 mV 200 mV	
Output Float Voltage Output: Voltage and Current Range Power Voltage 10 15 20 30 40 50 60 75 80 100 160 200 200 300	0.03%/Cofmax Negativetermin Supplies in "ser 2007 267 250 167 125 100 83 67 63 50 31 25 20 31 25 20 17	kimum outpu nalwithin +/-: ies" have a sy 3U 8/10 kW 800 534 500 334 250 200 167 133 220 100 63 50 63 50 40 33	tcurrentrati 300V of chas ystem current 12/15 kW Cr 1200 801 750 501 375 300 250 200 188 150 94 75 60 50	16/20 kW 16/20 kW urrent 1600* 1068* 1000* 668* 500* 400* 333 267 250 200 125 100 80 67	Ppoint, typical Precommend ti vest current su 6U 20/25 kW 2000* 1335* 1250* 835* 625* 500* 417 333 313 250 156 125 100 83	24/30 kW 24/00* 1602* 1500* 1002* 750* 600* 500 400 375 300 188 150 120 100	em.	P-P (20 Hz-20 MHz 50 mV 50 mV 50 mV 60 mV 60 mV 75 mV 75 mV 75 mV 100 mV 100 mV 100 mV 150 mV 175 mV 200 mV	
Output Float Voltage Output: Voltage and Current Range Power Voltage 10 12 10 15 20 30 40 50 60 75 80 160 200 200 300 300 300 300 300 330	0.03%/Cofmax Negativetermi Supplies in "ser es 4/5 kW 400 267 250 167 125 100 83 67 63 63 67 63 50 31 25 20 31 25 20 17 15	kimum outpu nalwithin +/-: ies" have a sy 3U 8/10 kW 800 534 500 334 250 200 167 133 2250 200 167 133 125 100 63 50 40 33 30	tcurrentrati 300V of chas ystem current 12/15 kW CC 1200 801 750 501 375 300 250 200 188 150 94 75 60 50 45	16/20 kW 16/20 kW urrent 1600* 1000* 668* 500* 400* 333 267 250 200 125 100 80 67 61	Ppoint, typical Precommend ti vest current su 20/25 kW 20/25 kW 2000* 1335* 1250* 835* 625* 500* 417 333 313 250 156 125 100 83 76	24/30 kW 2400* 1602* 1500* 1002* 750* 600* 500 400 375 300 188 150 120 120 100 91	em.	t Noise P-P (20 Hz-20 MHz) 50 mV 50 mV 60 mV 60 mV 75 mV 75 mV 75 mV 100 mV 100 mV 100 mV 100 mV 200 mV 200 mV	
Output Float Voltage Output: Voltage and Current Range Power Voltage 10 15 20 30 40 50 60 75 80 100 160 200 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300	0.03%/Cofmax Negativetermin Supplies in "ser es 4/5 kW 400 267 250 167 125 100 83 67 63 63 67 63 50 31 25 20 31 25 20 17 15 12 12	kimum outpu nal within +/-: ies" have a sy 3U 8/10 kW 8/0 534 500 334 250 200 167 133 225 100 63 50 40 33 30 25	tcurrentrati 300V ofchas stem current 12/15 kW Cr 1200 801 750 501 375 300 250 200 188 150 94 75 60 50 45 38	16/20 kW 16/20 kW Immediate 1600* 1068* 1000* 668* 500* 400* 333 267 250 200 125 100 80 67 61 50	Ppoint, typical Precommend ti vest current su 6U 20/25 kW 2000* 1335* 1250* 835* 625* 500* 417 333 313 250 156 125 100 83 76 63	24/30 kW 2400* 1602* 1500* 1002* 750* 600* 500 400 375 300 188 150 120 120 100 91 75	em.	t Noise P-P (20 Hz-20 MHz) 50 mV 50 mV 60 mV 60 mV 75 mV 75 mV 75 mV 75 mV 100 mV 100 mV 100 mV 100 mV 200 mV 200 mV 200 mV 300 mV	
Output Float Voltage Output: Voltage and Current Range Power Voltage 10 10 15 20 30 40 50 60 75 80 100 160 200 300 <	0.03%/Cofmax Negativetermin Supplies in "ser 4/5 kW 400 267 250 167 250 167 125 100 83 67 63 63 50 31 25 20 31 25 20 17 15 12 10 17 15 12 10	kimum outpu nalwithin +/-: ies" have a sy 3U 8/10 kW 800 534 500 334 250 200 167 133 220 100 63 50 40 63 50 40 33 30 225 20	tcurrentrati 300V ofchas system current 12/15 kW Ct 1200 801 750 501 375 300 250 200 188 150 94 75 60 50 45 38 30	16/20 kW 16/20 kW urrent 1600* 1068* 1000* 668* 500* 400* 333 267 250 200 125 100 80 67 61 50 40	Point, typical Precommend ti vest current survey 2000* 1335* 1250* 835* 625* 500* 417 333 313 250 156 125 100 83 76 63 50	pply in the syst 24/30 kW 2400* 1602* 1500* 1002* 750* 600* 500 400 375 300 188 150 120 120 100 91 75 60	em.	P-P (20 Hz-20 MHz) 50 mV 50 mV 60 mV 60 mV 75 mV 75 mV 75 mV 100 mV 100 mV 100 mV 200 mV 200 mV 300 mV 350 mV	

* By way of paralleling 3U supplies

SGX Series : Product Diagram

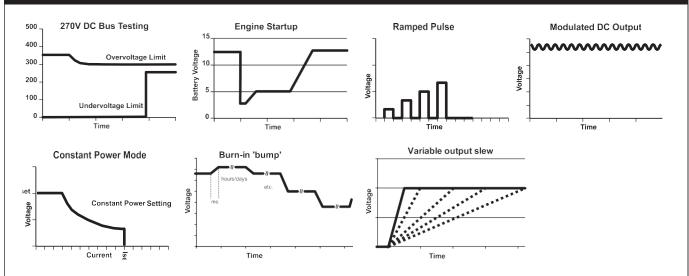


3U Case (40-1000V)

SGX Series

4-150 kW

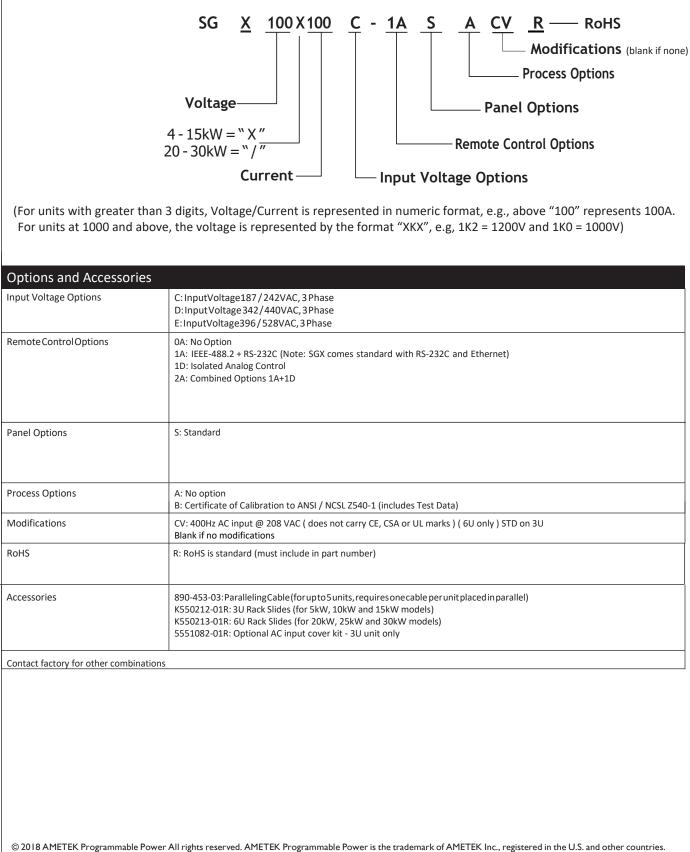
Advanced Power Simulation



SGX model provides constant power mode allowing independent setting of the max voltage, current and power

SGX / SGI Comparison Chart						
Feature	SGX	SGI				
Modular Design	•	•				
Fast Load Transient	•	•				
Parallelable	•	•				
Analog & Digital Summing	•	•				
Direct Front Panel V/I Control	•	•				
Touch Screen	•					
Sequencing	•	•				
Save/Recall Setups	•	•				
System Power Readouts	•	•				
Constant Power Mode	•	•				
RS-232C	Standard	Standard				
LXI Class C Ethernet	Standard	Optional				
GPIB	Optional	Optional				
Environmental						
Operating Temperature	0 to 50°C					
Storage Temperature	-25º C to 65º C					
Humidity Range	Relative humidity up to 95% non-condensing, 0º C – 50º C					
Altitude	Operatingfull power available up to 5,000 ft. (~1,500 m), derate 10% of full power for every 1,000 feet higher; non-operating to 40,000 ft. (~12,000 m)					
Cooling	Front and side air inlet, rear exhaust. Temperature controlled, variable speed fans. Units may be stacked without spacing.					
Regulatory	Certified to UL/CSA 61010 and IEC/EN 61010-1 by a NRTL, CE Compliant, Semi-F47 Compliant. LVD Categories: Installation Category II: Pollution Degree 2; Class II Equipment: for Indoor Use Only, back panel not user accessible (see user manual for installation instructions) EMC Directive, EN 61326:1998					

SGX Series



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