

Uninterruptible Power Systems & Power Conversion Products

SG Series[™] UPS Plus[®] 800VA to 6kVA

- True Double Conversion On-Line, Sinewave Design
- Input Power Factor Correction
- Wide Input Voltage Window
- Precision Output Voltage Regulation
- Superior Brownout, Surge and Transient Protection
- Internal System Bypass
- Eliminates Generator Frequency & Voltage Drift
- UPSILON[®] Monitoring & Shutdown Software
- Optional Frequency Conversion
- Optional Extended Battery Packs & Chargers
- Optional Internal SNMP/HTTP Interface Card
- Two-Year Warranty



True Regenerative On-Line Design

As new and innovative technologies have become the backbone of today's businesses, maximum system availability is critical and downtime is more expensive than ever. Increasingly, businesses need a UPS that not only protects against blackouts, but also virtually eliminates more frequent and subtle power disturbances. Surges, sags, line noise and brownouts can disrupt proper operation of sensitive equipment. These disturbances may also create unnecessary production, service, and data recovery costs.

A True Regenerative On-Line UPS provides the highest level of protection against the widest spectrum of power problems. The incoming AC utility source is converted to a regulated DC voltage. From this DC voltage, a new AC voltage is regenerated, providing continuous, clean, tightly regulated power to your equipment. Line-interactive and Off-line designs leave your equipment connected directly to dirty utility power. They only provide minimal transient, voltage and backup protection. If your equipment operation is "Mission Critical", a true double conversion On-Line UPS, such as Falcon[®] Electric's SG Series[™] UPS Plus[®], is the only clear choice.

Plus Input Power Factor Correction

All SG Series UPS Plus models include state-of-the-art Input Power Factor Correction. This greatly reduces the amount of current demanded from your building wiring system, yielding a highly efficient, "building friendly" UPS.

Plus Microprocessor Control

Falcon Electric's SG Series UPS incorporates advanced microprocessor technology. This technology makes possible a high level of internal UPS control and management. With the supplied UPSILON® software, all SG Series UPS models support unattended shutdown, management, data logging, and self-diagnostics. The software supports MS Windows® 95, 98, NT, 2000, 2000 Server, ME, XP, Novell Netware® 5 & 6, LINUX and FreeBSD. UPSILON for UNIX supports most popular UNIX platforms and OS versions.

Plus SNMP/HTTP Remote Management Support

Our SNMP/HTTP Agent board provides remote management and monitoring over any Ethernet LAN, WAN or the Internet utilizing a 10BaseT-type connection. The optional SNMP/HTTP agent installs via a port located on the back of every SG Series model.

Plus Extended Battery Ready

All SG Series models have continuous duty inverters and support the addition of optional external battery/charger packs. Whether your application requires a few additional minutes or hours, the SG Series is ready.

Plus Frequency Converter Capability

With a factory modification and the addition of an external input transformer, SG Series models can be configured for use as voltage and frequency converters. This makes the SG Series UPS Plus an ideal choice for worldwide power applications.

SG Series[™] UPS PLUS[®]

Fast Battery Charger

800VA to 1.5kVA

Model Number	SG800-1T	SG1K-1T	SG1K-2T	SG1.5K-1T
Nominal VA	800	1000	1000	1500
Electrical Input	•	-	•	•
Nominal AC Voltage	120V	120V	230V	120V
AC Voltage Range	87-140V	87-140V	170-275V	87-140V
Current-Amps	5.5	6.9	3.6	10.7
Frequency	0.0		% (Auto – Tracking)	
Power Factor Correction			> 0.95	
Efficiency (Typical)			> 86%	
Electrical Output				
Watts	560	700	700	1050
AC Voltage	100V	100V	200V	100V
(Switchable)	110V	110V	200V 220V	110V
(0	115V	115V	230V	115V
	120V	120V	240V	120V
Frequency		50/60 Hz	(Auto Tracking)	
Frequency Stability		±0.3% (Battery Mode)	
Voltage Regulation			± 2%	
Step Load Change		± 7% for 10	0% load variation	
Harmonic Distortion			, < 5% Non -Linear Load	
Overload		105% load	for 50 Seconds	
Crest Ratio			3:1	
Battery				
DC Voltage		36V		72V
Туре			ad Acid Maintenance - Free	120
Back Up Time @ Full Load	9 Minutes		Minutes	11 Minutes
@ 1/2 Load	25 Minutes		Minutes	30 Minutes
Recharge Time		8 Ho	ours to 90%	
Battery times are approximate.	•			
Transfer Time				
Line Fails/Recovers	[Zero	
UPS to Bypass or Reverse			< 4ms	
After Overload		Auto Tr	ansfer to UPS	
		71010		
Electrical Connections	1		-	
Input	6' Cord with	6' Cord with	6' Cord with	6' Cord with
<u></u>	5-15P	5-15P	Schuko or 6-15P	5-15P
Output	(6) 5-15R	(6) 5-15R	(4) IEC 320	(6) 5-15R
Contact the factory for other input/out	out options.			
Environmental				
Operating Temperature			C (32° F to 104° F)	
Humidity			Non – Condensing	
Altitude		,	000 Feet	
Cooling			y Forced Air Fans	
Audible Noise @ 1 Meter	ļ	<45dBA		< 50dBA
Controls and Indicators				
LED	Line, Inverter. Ba	ttery Reserve, Load, Bypa	ss, Alarm, Crest, Batterv & L	oad Capacity Level
Audible Alarms		Over/Under Voltage, Over/		p., Over Load, Fau It Alarm
Communications	,,		Indled UPSilon 2000 Software)	, ,
		, , , , , , , , , , , , , , , , , , ,	· · · · · · · · · · · · · · · · · · ·	
Mechanical	1	07460460		12 0 4 7 6 4 40 0
Dimensions H x W x D inches		8.7 x 6.0 x 15.8		13.8 x 7.6 x 18.9 (350 5 x 193 0 x 480 0)
(mm) Weight Ib. (kg)		(220.9 x 152.4 x 401.3) 33 (14.9)	/	(350.5 x 193.0 x 480 .0) 68 (30.9)
Agency Listing	177	78, CUL,	CE available with Schuko plug	UL 1778, CUL,
		Class A	OE available with Schuko plug only	FCC Class A
Available Options		Comunitie		
Option A	60 Hz to 50 Hz Frequence			
Option B	50 Hz to 60 Hz Frequence			
Option C	SNMP/HTTP Network Ca			
Option D	Standard Contact Closure			
Maintenance Bypass	Make-Before-Break Exte			
External Battery Packs		ery Packs (minu tes to hou	/olu	

Fast Charger internal to the Extended Battery Pack Cabinet (Required for battery times 2 hours or more.)

SG Series[™] UPS PLUS[®]

2kVA & 3kVA

Model Number	SG2K-1T SG2K-1T-HW	SG2K-2T SG2K-2T-HW	SG3K-1T SG3K-1T-HW	SG3K-2T SG3K-2T-HW	SG2K-2TX SG2K-2TXI ¹	SG3K-2TX SG3K-2TXI ²
Nominal VA	20	00	300	0	2000	3000
Electrical Input						
Nominal AC Voltage	120V	230V	120V	230V		230V
AC Voltage Range	87 – 140V	170 – 275V	87 – 140V	170 – 275V		170 – 275V
Current – Amps	14.2	7.4	21.4	11.2	7.5	11.3
Frequency			50/60 Hz ± 5%	% (Auto – Tracking)	
Power Factor Correction				> 0.95		
Efficiency (Typical)		>	86%			> 85%
Electrical Output						
Watts	14	00	210	0	1400	2100
AC Voltage	100V	200V	100V	200V	120V 208	
(Switchable)	110V	220V	110V	220V	¹ (700W 220	
	115V	230V	115V	230V	split- 230 phase, 240	ov phase. 230V
	120V	240V	120V	240V	each 240	0V each 240V 5-20R)
Frequency			E0/60 LI-	(Auto Tracking)	5-20R)	5-20R)
Frequency Frequency Stabi lity				Battery Mode)		
Voltage Regulation		+	± 0.3% (± 5%	± 3%
Step Load Change		1		0% load variation	± 070	± 070
Harmonic Distortion				< 5% Non -Linear	Load	
Overload				for 50 Seconds		
Crest Ratio				3:1		
Retterne						
Battery		2V			96V	ı
DC Voltage	12		101/ 7ALL Cooled Lo	ad Asid Maintanan		
Type Back Up Time @ Full Load	7 Mir		12V, 7AH Sealed Le 5.5 Mir		ce-⊢ree 7 Minutes	E E Minutos
@ 1/2 Load	20 Mi		5.5 Min 15 Min		20 Minutes	5.5 Minutes 15 Minutes
Recharge Time	20 101	nutes		urs to 90%	20 Willinutes	15 Minutes
Battery times are approximate.			0110			
Transfer Time				7		
Line Fails/Recovers UPS to Bypass or Reverse				Zero < 4ms		
After Overload				< 4ms ansfer to UPS		
Alter Ovenoad			Auto Tra	ansier to UPS		
Electrical Connections						
Input - T Models	6' Cord with	6' Cord with	6' Cord with	6' Cord with	6' Cord	with 6 -20P, L6-20P
	5-20P	6-20P, L6-20P	L5-30P	6-20P, L6-20P		or Schuko
		or Schuko		or Schuko		
-HW Models		Hai	dwire		Hardy	wire Not Available
Output -T Models	(6) 5-15R or	(6) IEC 320	(6) 5-15R or	(6) IEC 320	(2) 5-	20R & (1) L6-20R
	(3) 5-15R &	or (1) L6-20R	(3) 5-15R &	or (1) L6-20R	(2) 5-	2010 0 (1) 20-2010
	(2) 5-20R	0. (.) 20 20.0	(2) 5-20R	0. (1) 20 20. (
-HW Models		 امال	dwire		Hord	wire Not Available
		Πdi	uwire		Haluv	wire Not Available
Contact the factory for other input/output	options.					
Environmental						
Operating Temper ature			0° C - 40° C	(32° F to 104° F)		
Humidity				Non - Condensing		
Altitude				000 Feet		
Cooling				/ Forced Air Fans		
Audible Noise @ 1 Meter			<	50dBA		
Controls and Indicators						
LED	Line, Inverter Ba	attery Reserve 1 or	d, Bypass, Alarm, C	rest Batterv & I	ad Capacity Le	vel
Audible Alarms			r Voltage, Over/Unde			
Communications	,		232 Serial Port (Bu			.,
			(···		/	
Mechanical		40.070 10.0	(050 - 400 - 400)		10.0 7.0 7	
Dimensions H x W x D inch es (mm)		13.8 x 7.6 x 18.9	(350 x 193 x 480)	(27)	13.8 x 7.6 x 3	
Weight Ib. (kg) Agency Listing	68.4	<u>(31)</u> 1778, CUL, FCC C	81.4	(37) els: UL 1778 & CUI	nending	150.0 (68)
Agency Libung		, ,	UL 1778, CUL, CE			
			, 00L, 0L	- and the with our donate plu		
Available Options						
Option A		Frequency Conve				
Option B		Frequency Conve				
Option C		etwork Card (Intern				
Option D		ct Closure Interface				
Maintenance Bypass		eak External Wrap				
External Battery Packs Fast Battery Charger			(minutes to hours) led Battery Pack Cal	oin et (Required fo	r hattery times (2 hours or more)
r ast battery onarger	r ust onarger III		ou buildig i aur Udl		n batter y tilles 2	

SG Series[™] UPS PLUS[®] 2kVA & 3kVA Isolated Input

Model Number	SG2K-X1T	SG2K-X2T	SG3K-X1T	SG3K-X2T
Nominal VA	200	•		000
Electrical Input	1	0001/		0001/
Nominal AC Voltage	4001/	208V	1001/	208V
(Factory configurable taps please	120V	220V	120V	220V
specify at the time of order) AC Voltage Range	87 – 140V	240V	87 – 140V	240V
0		170 – 275V		170 – 275V
Current – Amps	14.2	7.4	21.4	11.2
Frequency Power Factor Correction		50/60 Hz ± 5% (x > 0		
Efficiency (Typical)		> 8		
Enciency (Typical)		20	0%	
Electrical Output		-		
Watts	140			2100
AC Voltage	200			200V
(user settable)	220			220V
	230 240			30V 40V
Frequency	240	50/60 Hz (Au		V UT.
Frequency Stability	1	± 0.3% (Bat		
Voltage Regulation		± 0.070 (Bdi ± 2		
Step Load Change		± 7% for 100%		
Harmonic Distortion		< 3% Linear Load, < \$		
Overload		105% load for		
Crest Ratio		3:		
Battery DC Voltage	72	V	(96V
Type	12	12V, 7AH Sealed Lead		
Back Up Time @ Full Load	7 Min			Vinutes
@ 1/2 Load	20 Min			linutes
Recharge Time		8 Hours	to 90%	
Battery times are approximate.	-			
Transfer Time				
Line Fails/Recovers		Ze	ero	
UPS to Bypass or Reverse		< 4		
After Overload		Auto Trans	fer to UPS	
Electrical Connections	•			
Input	6' Cord with	Detachable 6' Line Cord	6' Cord wit	Detachable 6" line cord
mpar	5-20P	with a L6-20P or	L5-30P	with a L6-20P or
	0 201	Schuko	20 001	Schuko
Output	(1) Duplex 5-20R or	(6) IEC 320	(1) Duplex 5-20R or	(6) IEC320 or
	(1) L5-20R	or (1) L6-20R	(1) L5-30R	(1) L6-20R
Contact the factory for other input/output	t options.			
Environmental				
Operating Tempera ture		0° C - 40° C (3		
Humidity		10% to 95% Nor		
Altitude		7,000		
Cooling		Low Velocity Fo	orced Air Fans	
Audible Noise @ 1 Meter		<50	dBA	
Controls and Indicators				
LED	Line, Inverter, Battery Reserv	e, Load, Bypass, Alarm, Cres	t, Battery & Load Capacity	Level
Audible Alarms	DC Mode, Low Battery, Over/			
Communications		RS-232 Serial Port (Bundl		
Mechanical				
Dimensions $H \times W \times D$ inche s (mm)		13.8 x 7.6 x 18.9	(350 x 193 x 480)	
Weight Ib. (kg)	68.4			4 (37)
Agency Listing	UL 1778 & CUL, Pending	s /		

SG Series[™] UPS PLUS[®]

5kVA & 6kVA

Model Number	SG5K-1TX & -	SG5K-		SG5K-2T	SG6K-1TX	SG6K-		SG6K-2T
	-1TXC	-2T)	-	& -2TC	0000	-2T	-	& -2TC
Nominal VA	5000	50	00	5000	6000	60	00	6000
Electrical Input	400)/	00	0) (0001/	1001/	00	0) (0001/
Nominal AC Voltage AC Voltage Range	120V 87-140V	230		230V 170-275V	120V 87-140V		0V 275V	230V 170-275V
Current-Amps	38.7	20		19.5	46.6		.3	23.4
Frequency	00.7	20			Hz ±5%	27	.0	20.4
Efficiency (Typical)	1	> 79%		> 82%		> 79%		> 82%
Power Factor Correction					0.95			
Electrical Output								
Watts		3500	0			4200		
	120 & 208V or	(1)	208V	208V	120 & 208V or	(1)	208V	208V
AC Voltage	120 & 220V or	120V	220V	220V	120 & 220V or	120V	220V	220V
(Switchable except where noted)	120 & 240V	(1)	230V	230V	120 & 240V	(1)	230V	230V
Isolation Transformer	(No Switching) No	(1) Yes	240V No	240V No	(No Switching) No	(1) Yes	240V No	240V No
Frequency	60Hz	50/60Hz	50/60Hz	50/60Hz	60Hz	50/60Hz	50/60Hz	50/60Hz
Voltage Regulation	00112	±4%	30/00112	±3%	00112	±4%	30/0011Z	±3%
Frequency Stability	<u> </u>	- 170			attery Mode)	170		2070
Step Load Change	1				6 load variation			
THD – Linear Loads					3%			
THD – Non-Linear Loads		< 7%		<5%		<7%		<5%
Overload					50 Seconds			
Crest Ratio					3:1			
(1) Contact the factory for output se (2) Available with a Split -Phase out								
· · · · · · · · · · · · · · · · · · ·	P							
Battery								
DC Voltage				2	40V			
Туре				AH Sealed Lead	Acid Maintenance			
Back Up Time @ Full Load		9 Minu				7 Minut		
@ 1/2 Load	<u> </u>	28 Minu	utes	10.11	1 000/	18 Minu	tes	
Recharge Time Battery times are approximate.	<u> </u>			10 Hou	rs to 90%			
Electrical Connections Inpu					Llanduring	1		
-1TX -1TXC	Hardwire L5-50P				Hardwire			
-11XC -2T	LJ-JUP			Hardwire				Hardwire
-21 -2TC	4	1		L6-30P				L6-30P
-210 -2TX	-	Hard	wire	20 001	l	Hard	wire	20 001
-2TXC	1 /	L6-3		1	l I	L6-		1
Electrical Connections Outp								
-1TX	Hardwire				Hardwire			
	(2) duplex				Thardwire	_		
-1TXC	5-20R &							
-2T								
-21 -2TC	(1) L6-30R			Hardwiro				Hardwire
-2TX	(1) L6-30R	l		Hardwire (1) L6-30R				Hardwire (1) L6-30R
	(1) L0-30R	Hard				Hard		
	(1) L6-30R	(2) du	uplex			(2) dı	ıplex	
-2TXC	(1) LO-30R	(2) du 5-20	ıplex IR &			(2) du 5-20	ıplex IR &	
-2TXC Contact the factory for other input/o		(2) du	ıplex IR &			(2) dı	ıplex IR &	
Contact the factory for other input/o		(2) du 5-20	ıplex IR &			(2) du 5-20	ıplex IR &	
Contact the factory for other input/o Environmental		(2) du 5-20	ıplex IR &	(1) L6-30R	(32° E to 95° E)	(2) du 5-20	ıplex IR &	
Contact the factory for other input/o Environmental Operating Temperature		(2) du 5-20	ıplex IR &	(1) L6-30R 0° C to 35° C	(32° F to 95° F)	(2) du 5-20	ıplex IR &	
Contact the factory for other input/o Environmental		(2) du 5-20	ıplex IR &	(1) L6-30R 0° C to 35° C 10% to 95% No	(32° F to 95° F) on – Condensing 0 Feet	(2) du 5-20	ıplex IR &	
Contact the factory for other input/o Environmental Operating Temperature Humidity		(2) du 5-20	ıplex IR &	(1) L6-30R 0° C to 35° C 10% to 95% N 7,00	on - Condensing	(2) du 5-20	ıplex IR &	
Contact the factory for other input/o Environmental Operating Temperature Humidity Altitude		(2) du 5-20	ıplex IR &	(1) L6-30R 0° C to 35° C 10% to 95% N 7,00 Low Velocity I	on – Condensing 0 Feet	(2) du 5-20	ıplex IR &	
Contact the factory for other input/o Environmental Operating Temperature Humidity Altitude Cooling Audible Noise @ 1 Meter		(2) du 5-20	ıplex IR &	(1) L6-30R 0° C to 35° C 10% to 95% N 7,00 Low Velocity I	on – Condensing 10 Feet Forced Air Fans	(2) du 5-20	ıplex IR &	
Contact the factory for other input/o Environmental Operating Temperature Humidity Altitude Cooling	utput options.	(2) du 5-20 (1) L6	ıplex R & -30R	(1) L6-30R 0° C to 35° C 10% to 95% N 7,00 Low Velocity I < 5	on – Condensing 0 Feet Forced Air Fans 5dBA	(2) di 5-20 (1) L6	ıplex R & -30R	(1) L6-30R
Contact the factory for other input/o Environmental Operating Temperature Humidity Altitude Cooling Audible Noise @ 1 Meter Controls and Indicators	utput options.	(2) du 5-20 (1) L6	ıplex R & -30R	(1) L6-30R 0° C to 35° C 10% to 95% N 7,00 Low Velocity I < 5 e, Load, Bypass	on – Condensing 10 Feet Forced Air Fans	(2) di 5-2C (1) LE	iplex R & -30R	(1) L6-30R
Contact the factory for other input/o Environmental Operating Temperature Humidity Altitude Cooling Audible Noise @ 1 Meter Controls and Indicators LED	utput options.	(2) du 5-20 (1) L6	iplex R & -30R ittery Reserve Over/Under \	(1) L6-30R 0° C to 35° C 10% to 95% N 7,00 Low Velocity I < 5 e, Load, Bypass / oltage, Over/L	on – Condensing 10 Feet Forced Air Fans 5dBA , Alarm, Crest, Batte	(2) di 5-20 (1) L6 ry & Load C igh Temp. , O	iplex R & -30R	(1) L6-30R
Contact the factory for other input/o Environmental Operating Temperature Humidity Altitude Cooling Audible Noise @ 1 Meter Controls and Indicators LED Audible Alarms Communications	utput options.	(2) du 5-20 (1) L6	iplex R & -30R ittery Reserve Over/Under \	(1) L6-30R 0° C to 35° C 10% to 95% N 7,00 Low Velocity I < 5 e, Load, Bypass / oltage, Over/L	on – Condensing 10 Feet Forced Air Fans 5dBA , Alarm, Crest, Batte Inder Frequency , H	(2) di 5-20 (1) L6 ry & Load C igh Temp. , O	iplex R & -30R	(1) L6-30R
Contact the factory for other input/o Environmental Operating Temperature Humidity Altitude Cooling Audible Noise @ 1 Meter Controls and Indicators LED Audible Alarms	utput options.	(2) du 5-20 (1) L6 a, Inverter, Ba Low Battery, C	iplex R & -30R ittery Reserve Over/Under \	(1) L6-30R 0° C to 35° C 10% to 95% N 7,00 Low Velocity I < 5 e, Load, Bypass / oltage, Over/L	on – Condensing 10 Feet Forced Air Fans 5dBA , Alarm, Crest, Batte Inder Frequency , H ed UPSilon 2000 Sc	(2) di 5-20 (1) L6 ry & Load C igh Temp. , O	iplex R & -30R Sapacity Leve rer Load, Fau	(1) L6-30R
Contact the factory for other input/o Environmental Operating Temperature Humidity Altitude Cooling Audible Noise @ 1 Meter Controls and Indicators LED Audible Alarms Communications Mechanical	Line	(2) du 5-20 (1) L6 e, Inverter, Ba Low Battery, (iplex R & -30R ittery Reserve Over/Under \	(1) L6-30R 0° C to 35° C 10% to 95% N 7,00 Low Velocity I < 5 e, Load, Bypass / oltage, Over/L erial Port (Bundl	on – Condensing 10 Feet Forced Air Fans 5dBA , Alarm, Crest, Batte Inder Frequency , H ed UPSilon 2000 Sc 2 x 21.8 (815.3	(2) di 5-20 (1) L6 ry & Load C igh Temp., Ov	iplex R & 30R 	(1) L6-30R
Contact the factory for other input/o Environmental Operating Temperature Humidity Altitude Cooling Audible Noise @ 1 Meter Controls and Indicators LED Audible Alarms Communications Mechanical Dimensions H x W x D i nches	Line DC Mode, L Hardwired Mode Receptacle Mode T	(2) du 5-20 (1) L6 e, Inverter, Ba Low Battery, (iplex R & -30R ittery Reserve Over/Under \	(1) L6-30R 0° C to 35° C 10% to 95% Nv 7,00 Low Velocity I < 5 e, Load, Bypass / oltage, Over/L erial Port (Bundl 32.1 x 10.	on – Condensing 0 Feet Forced Air Fans 5dBA , Alarm, Crest, Batte Inder Frequency , H ed UPSilon 2000 Sc 2 x 21.8 (815.3) 216 (98)	(2) di 5-2((1) L6 (1)	iplex R & 30R 	(1) L6-30R
Contact the factory for other input/o Environmental Operating Temperature Humidity Altitude Cooling Audible Noise @ 1 Meter Controls and Indicators LED Audible Alarms Communications Mechanical Dimensions H x W x D i nches (mm)	Line DC Mode, L Hardwired Mode Receptacle Mode	(2) du 5-20 (1) L6 e, Inverter, Ba Low Battery, (iplex R & -30R ittery Reserve Over/Under \	(1) L6-30R 0° C to 35° C 10% to 95% Nv 7,00 Low Velocity I < 5 e, Load, Bypass / oltage, Over/L erial Port (Bundl 32.1 x 10.	on – Condensing 10 Feet Forced Air Fans 5dBA , Alarm, Crest, Batte Inder Frequency , H ed UPSilon 2000 Sc 2 x 21.8 (815.3) 2 x 27.0 (815.3) 216 (98) 299 (136)	(2) di 5-2((1) L6 (1)	iplex R & 30R 	(1) L6-30R
Contact the factory for other input/o Environmental Operating Temperature Humidity Altitude Cooling Audible Noise @ 1 Meter Controls and Indicators LED Audible Alarms Communications Mechanical Dimensions H x W x D i nches (mm)	Line DC Mode, L Hardwired Mode Receptacle Mode T TX TC	(2) du 5-20 (1) L6 e, Inverter, Ba Low Battery, (iplex R & -30R ittery Reserve Over/Under \	(1) L6-30R 0° C to 35° C 10% to 95% Nv 7,00 Low Velocity I < 5 e, Load, Bypass / oltage, Over/L erial Port (Bundl 32.1 x 10.	on – Condensing 0 Feet Forced Air Fans 5dBA , Alarm, Crest, Batte Inder Frequency , H ed UPSilon 2000 Sc 2 x 21.8 (815.3) 216 (98) 299 (136) 239 (108)	(2) di 5-2((1) L6 (1)	iplex R & 30R 	(1) L6-30R
Contact the factory for other input/o Environmental Operating Temperature Humidity Altitude Cooling Audible Noise @ 1 Meter Controls and Indicators LED Audible Alarms Communications Mechanical Dimensions H x W x D i nches (mm)	Line DC Mode, L Hardwired Mode Receptacle Mode	(2) du 5-20 (1) L6 e, Inverter, Ba Low Battery, (els els	uplex R & -30R 	(1) L6-30R 0° C to 35° C 10% to 95% Nv 7,00 Low Velocity I < 5 e, Load, Bypass / oltage, Over/L erial Port (Bundl 32.1 x 10.	on – Condensing 10 Feet Forced Air Fans 5dBA , Alarm, Crest, Batte Inder Frequency , H ed UPSilon 2000 Sc 2 x 21.8 (815.3) 2 x 27.0 (815.3) 2 16 (98) 2 99 (136)	(2) di 5-20 (1) L6 (1)	iplex R & 30R 	(1) L6-30R (1) L6-30R

Available Options: Extended Run Time Battery Packs, Make-Before-Break Maintenance Bypass, SNMP/HTTP Network Card, Frequency & Voltage Conversion.

SG Series™ UPS PLUS[®] 5kVA & 6kVA Isolated Input

Model Number	SG5K-X1T	SG5K-X2T	SG5K-X2TC	SG6K-X1T	SG6K—X2T	SG6K-X2TC
Nominal VA		5000	1		6000	
Electrical Input						
Nominal AC Voltage	120V	230V	230V	120V	230V	230V
AC Voltage Range	87-140V	170-275V	170-275V	87-140V	170-275V	170-275V
Current-Amps	38.7	20.3	20.3	46.6	24.3	24.3
Frequency	00.1	20.0) Hz ±5%	24.0	24.0
Efficiency (Typical)				79%		
Power Factor Correction				• 0.95		
nput Isolation Transformer				Yes		
eakage Current				300øA		
Electrical Output			· · · · · · · · · · · · · · · · · · ·			
Vatts	[3500		1	4200	
Valls		5500		208V	4200	
AC Voltage				220V		
Switch selectable)				230V		
· · · · · · · · · ,				240V		
Frequency)/60Hz		
/oltage Regulation				±3%		
requency Stability			± 0.3% (E	Battery Mode)		
Step Load Change			±7% for 100	% load variation		
HD – Linear Loads				< 3%		
THD – Non-Linear Loads				<5%		
Dverload			105% for	50 Seconds		
Crest Ratio				3:1		
	put.					
(2) Available with a Split -Phase out B attery DC Voltage Type				240V Id Acid Maintenand	ce-Free	
Battery DC Voltage Type		9 Minutes	2 12V, 7AH Sealed Lea		ce-Free 7 Minutes	
Battery DC Voltage Type						
Battery DC Voltage Type Back Up Time @ Full Load @ 1/2 Load Recharge Time		9 Minutes	12V, 7AH Sealed Lea		7 Minutes	
Battery DC Voltage Type Back Up Time @ Full Load @ 1/2 Load Recharge Time Battery times are approximate.		9 Minutes	12V, 7AH Sealed Lea	d Acid Maintenand	7 Minutes	
Battery DC Voltage Type Back Up Time @ Full Load @ 1/2 Load Recharge Time Battery times are approximate.	ıt	9 Minutes 28 Minutes	12V, 7AH Sealed Lea	d Acid Maintenand	7 Minutes 18 Minutes	
Battery DC Voltage Type Back Up Time @ Full Load @ 1/2 Load Recharge Time Battery times are approximate. Electrical Connections Input	ıt	9 Minutes	12V, 7AH Sealed Lea 10 Hou 6" line cord with L6 -	d Acid Maintenand	7 Minutes	6" line cord with
Battery DC Voltage Type Back Up Time @ Full Load @ 1/2 Load Recharge Time Battery times are approximate. Electrical Connections Inpu	ut Hard	9 Minutes 28 Minutes	12V, 7AH Sealed Lea	d Acid Maintenand	7 Minutes 18 Minutes	
Battery DC Voltage Type Back Up Time @ Full Load @ 1/2 Load Recharge Time Battery times are approximate. Electrical Connections Inpu Type Electrical Connections Outp	ut Hard	9 Minutes 28 Minutes dwire	12V, 7AH Sealed Lea 10 Hou 6" line cord with L6 - 30P	d Acid Maintenand urs to 90% Hard	7 Minutes 18 Minutes dwire	6" line cord with L6-30P
Battery DC Voltage Type Back Up Time @ Full Load @ 1/2 Load @ 1/2 Load Recharge Time Battery times are approximate. Electrical Connections Input Type Electrical Connections Output Type	ut Hard	9 Minutes 28 Minutes	12V, 7AH Sealed Lea 10 Hou 6" line cord with L6 -	d Acid Maintenand urs to 90% Hard	7 Minutes 18 Minutes	6" line cord with
Battery DC Voltage Type Back Up Time @ Full Load @ 1/2 Load @ 1/2 Load Recharge Time Battery times are approximate. Electrical Connections Input Type Electrical Connections Output Type	ut Hard	9 Minutes 28 Minutes dwire	12V, 7AH Sealed Lea 10 Hou 6" line cord with L6 - 30P	d Acid Maintenand urs to 90% Hard	7 Minutes 18 Minutes dwire	6" line cord with L6-30P
Battery DC Voltage Type Back Up Time @ Full Load @ 1/2 Load Recharge Time Battery times are approximate. Electrical Connections Input Type Electrical Connections Outp Type Contact the factory for other input/o	ut Hard	9 Minutes 28 Minutes dwire	12V, 7AH Sealed Lea 10 Hou 6" line cord with L6 - 30P (1) L6-30R	d Acid Maintenand	7 Minutes 18 Minutes dwire	6" line cord with L6-30P
Battery DC Voltage Type Back Up Time @ Full Load @ 1/2 Load Recharge Time Battery times are approximate. Electrical Connections Input Type Electrical Connections Outp Type Contact the factory for other input/o Environmental	ut Hard	9 Minutes 28 Minutes dwire	12V, 7AH Sealed Lea 10 Hou 6" line cord with L6 - 30P (1) L6-30R	d Acid Maintenand urs to 90% Hard	7 Minutes 18 Minutes dwire	6" line cord with L6-30P
Battery DC Voltage Type Back Up Time @ Full Load @ 1/2 Load Recharge Time Battery times are approximate. Electrical Connections Input Type Electrical Connections Outp Type Contact the factory for other input/o Environmental Dperating Temperature	ut Hard	9 Minutes 28 Minutes dwire	12V, 7AH Sealed Lea 10 Hou 6" line cord with L6 - 30P (1) L6-30R 0° C to 35° C	d Acid Maintenand	7 Minutes 18 Minutes dwire	6" line cord with L6-30P
Battery DC Voltage Type Back Up Time @ Full Load @ 1/2 Load Recharge Time Battery times are approximate. Electrical Connections Input Type Electrical Connections Outp Type Contact the factory for other input/o Environmental Dperating Temperature Humidity	ut Hard	9 Minutes 28 Minutes dwire	12V, 7AH Sealed Lea 10 Hou 6" line cord with L6 - 30P (1) L6-30R 0° C to 35° C 10% to 95% N	d Acid Maintenand urs to 90% Hard (32° F to 95° F)	7 Minutes 18 Minutes dwire	6" line cord with L6-30P
Battery DC Voltage Type Back Up Time @ Full Load @ 1/2 Load @ 1/2 Load Recharge Time Battery times are approximate. Electrical Connections Input Type Electrical Connections Outp Type Electrical Connections Outp Type Type Type Electrical Connections Outp Type Electrical Connections Outp Type Electrical Connections Outp Type Type Type Type Type Type Type Type Type Type	ut Hard	9 Minutes 28 Minutes dwire	12V, 7AH Sealed Lea 10 Hou 6" line cord with L6 - 30P (1) L6-30R 0° C to 35° C 10% to 95% N 7,00	d Acid Maintenand urs to 90% Hard (32° F to 95° F) Ion – Condensing	7 Minutes 18 Minutes dwire	6" line cord with L6-30P
Battery DC Voltage Type Back Up Time @ Full Load @ 1/2 Load @ 1/2 Load @ 1/2 Load Recharge Time Battery times are approximate. Electrical Connections Input Type Electrical Connections Outp Type Electrical Connections Outp Type Type Type Electrical Connections Outp Type Electrical Connections Outp Type Electrical Connections Outp Type Electrical Connections Outp Type Type E	ut Hard	9 Minutes 28 Minutes dwire	12V, 7AH Sealed Lea 10 Hou 6" line cord with L6 - 30P (1) L6-30R 0° C to 35° C 10% to 95% N 7,00 Low Velocity	d Acid Maintenand urs to 90% Hard (32° F to 95° F) Ion – Condensing 00 Feet	7 Minutes 18 Minutes dwire	6" line cord with L6-30P
Battery OC Voltage Type Back Up Time @ Full Load @ 1/2 Load Recharge Time Battery times are approximate. Electrical Connections Input Type Electrical Connections Outp Type Contact the factory for other input/o Environmental Deperating Temperature Humidity Utitude Cooling Audible Noise @ 1 Meter	ut Hard	9 Minutes 28 Minutes dwire	12V, 7AH Sealed Lea 10 Hou 6" line cord with L6 - 30P (1) L6-30R 0° C to 35° C 10% to 95% N 7,00 Low Velocity	d Acid Maintenand urs to 90% Hard (32° F to 95° F) Ion – Condensing 00 Feet Forced Air Fans	7 Minutes 18 Minutes dwire	6" line cord with L6-30P
Battery DC Voltage Type Back Up Time @ Full Load @ 1/2 Load Recharge Time Battery times are approximate. Electrical Connections Inpu Type Electrical Connections Outp Type Contact the factory for other input/o Environmental Deperating Temperature Humidity Altitude Cooling Audible Noise @ 1 Meter Controls and Indicators	It Hard Dut Land Utput options.	9 Minutes 28 Minutes dwire dwire	12V, 7AH Sealed Lea 10 Hou 6" line cord with L6 - 30P (1) L6-30R 0° C to 35° C 10% to 95% N 7,00 Low Velocity	d Acid Maintenand urs to 90% Hard (32° F to 95° F) Ion – Condensing 00 Feet Forced Air Fans 55dBA	7 Minutes 18 Minutes dwire	6" line cord with L6-30P (1) L6-30R
Battery DC Voltage Type Back Up Time @ Full Load @ 1/2 Load Recharge Time Battery times are approximate. Electrical Connections Input Type Electrical Connections Outp Type Contact the factory for other input/o Environmental Dperating Temperature Humidity Altitude Cooling Audible Noise @ 1 Meter Controls and Indicators ED	ut Hard	9 Minutes 28 Minutes dwire dwire Inverter, Battery F	12V, 7AH Sealed Lea 10 Hou 6" line cord with L6 - 30P (1) L6-30R 0° C to 35° C 10% to 95% N 7,0 Low Velocity < 5	d Acid Maintenand urs to 90% Hard (32° F to 95° F) Ion – Condensing 00 Feet Forced Air Fans 55dBA	7 Minutes 18 Minutes dwire dwire ttery & Load Cap	6" line cord with L6-30P (1) L6-30R
Battery DC Voltage Type Back Up Time @ Full Load @ 1/2 Load @ 1/2 Load Recharge Time Battery times are approximate. Electrical Connections Input Type Electrical Connections Outp Type Contact the factory for other input/o Environmental Deperating Temperature Humidity Altitude Cooling Audible Noise @ 1 Meter Controls and Indicators ED Audible Alarms	ut Hard	9 Minutes 28 Minutes dwire dwire , Inverter, Battery F ow Battery, Over/L	12V, 7AH Sealed Lea 10 Hou 6" line cord with L6 - 30P (1) L6-30R 0° C to 35° C 10% to 95% N 7,00 Low Velocity < 5 Reserve, Load, Bypass	d Acid Maintenano urs to 90% Hard (32° F to 95° F) Ion – Condensing 00 Feet Forced Air Fans 55dBA s, Alarm, Crest, Ba Under Frequency ,	7 Minutes 18 Minutes dwire dwire ttery & Load Cap High Temp., Over	6" line cord with L6-30P (1) L6-30R
Battery DC Voltage Type Back Up Time @ Full Load @ 1/2 Load Recharge Time Battery times are approximate. Electrical Connections Inpu Type Electrical Connections Outp Type Contact the factory for other input/o Environmental Dperating Temperature Humidity Altitude Cooling Audible Noise @ 1 Meter Controls and Indicators LED Audible Alarms Communications	ut Harcout Line	9 Minutes 28 Minutes dwire dwire , Inverter, Battery F ow Battery, Over/L	12V, 7AH Sealed Lear 10 Hot 6" line cord with L6 - 30P (1) L6-30R 0° C to 35° C 10% to 95% N 7,00 Low Velocity < S	d Acid Maintenano urs to 90% Hard (32° F to 95° F) Ion – Condensing 00 Feet Forced Air Fans 55dBA s, Alarm, Crest, Ba Under Frequency ,	7 Minutes 18 Minutes dwire dwire ttery & Load Cap High Temp., Over	6" line cord with L6-30P (1) L6-30R
Battery DC Voltage Type Back Up Time @ Full Load @ 1/2 Load @ 1/2 Load Recharge Time Battery times are approximate. Electrical Connections Inpu Type Electrical Connections Outp Type Contact the factory for other input/o Environmental Dperating Temperature Humidity Altitude Cooling Audible Noise @ 1 Meter Controls and Indicators LED Audible Alarms Communications Mechanical	It Hard	9 Minutes 28 Minutes dwire dwire dwire dwire dwire dwire dwire dwire dwire dwire dwire dwire dwire	12V, 7AH Sealed Lear 10 Hot 6" line cord with L6 - 30P (1) L6-30R 0° C to 35° C 10% to 95% N 7,00 Low Velocity < S	d Acid Maintenand urs to 90% Hard (32° F to 95° F) Ion – Condensing 00 Feet Forced Air Fans 55dBA s, Alarm, Crest, Ba Under Frequency , Iled UPSilon 2000	7 Minutes 18 Minutes dwire dwire ttery & Load Cap High Temp. , Over Software)	6" line cord with L6-30P (1) L6-30R
Battery DC Voltage Type Back Up Time @ Full Load @ 1/2 Load Recharge Time Battery times are approximate. Electrical Connections Inpu Type Electrical Connections Outp Type Contact the factory for other input/o Environmental Dperating Temperature Humidity Altitude Cooling Audible Noise @ 1 Meter Controls and Indicators LED Audible Alarms Communications Mechanical Dimensions H x W x D i nches	It Hard	9 Minutes 28 Minutes dwire dwire dwire inverter, Battery F ow Battery, Over/L RS x 21.8	12V, 7AH Sealed Lea 10 Hou 6" line cord with L6 - 30P (1) L6-30R (1) L6-30R 0° C to 35° C 10% to 95% N 7,0 Low Velocity < ! Reserve, Load, Bypass Jnder Voltage, Over/ -232 Serial Port (Bunc	d Acid Maintenand urs to 90% Hard (32° F to 95° F) Ion – Condensing 00 Feet Forced Air Fans 55dBA s, Alarm, Crest, Ba Under Frequency , Iled UPSilon 2000	7 Minutes 18 Minutes dwire dwire ttery & Load Cap High Temp., Over Software)	6" line cord with L6-30P (1) L6-30R bacity Level Load, Fault Alarm
Battery DC Voltage Type Back Up Time @ Full Load @ 1/2 Load Recharge Time Battery times are approximate. Electrical Connections Input Type Electrical Connections Outp Type Contact the factory for other input/o Environmental Diperating Temperature Humidity Altitude Cooling Audible Noise @ 1 Meter Controls and Indicators ED Audible Alarms Communications Mechanical Dimensions H x W x D i nches (mm)	It Hard	9 Minutes 28 Minutes Jwire Jwire Jwire Jwire Inverter, Battery F ow Battery, Over/L RS x 21.8 x 553. 7) (8	12V, 7AH Sealed Lea 10 Hot 6" line cord with L6 - 30P (1) L6-30R 0° C to 35° C 10% to 95% N 7,0 Low Velocity < t Reserve, Load, Bypass Jnder Voltage, Over/ -232 Serial Port (Bunc 32.1 x 10.2 x 27.0	d Acid Maintenand urs to 90% Hard (32° F to 95° F) Ion – Condensing 00 Feet Forced Air Fans 55dBA s, Alarm, Crest, Ba Under Frequency , iled UPSilon 2000 (32.1 x 10 (815.3 x 25)	7 Minutes 18 Minutes dwire dwire ttery & Load Cap High Temp. , Over Software)	6" line cord with L6-30P (1) L6-30R bacity Level Load, Fault Alarm
Battery DC Voltage Type Back Up Time @ Full Load @ 1/2 Load @ 1/2 Load Recharge Time Battery times are approximate. Electrical Connections Input Type Electrical Connections Outp Type Contact the factory for other input/o Environmental Deperating Temperature Humidity Altitude Cooling Audible Noise @ 1 Meter Controls and Indicators ED Audible Alarms Communications Mechanical Dimensions H x W x D i nches (mm)	It Hard Hard utput options.	9 Minutes 28 Minutes Jwire Jwire Jwire Jwire Inverter, Battery F ow Battery, Over/L RS x 21.8 x 553. 7) (8	12V, 7AH Sealed Lea 10 Hou 6" line cord with L6 - 30P (1) L6-30R (1) L6-30R 0° C to 35° C 10% to 95% N 7,00 Low Velocity < { Reserve, Load, Bypass Jnder Voltage, Over/ -232 Serial Port (Bunc 32.1 x 10.2 x 27.0 15.3 x 259.0 x 685.8) 322 (146) UL1778 6	d Acid Maintenand urs to 90% Hard (32° F to 95° F) Ion – Condensing 00 Feet Forced Air Fans 55dBA s, Alarm, Crest, Ba Under Frequency , iled UPSilon 2000 (32.1 x 10 (815.3 x 25)	7 Minutes 18 Minutes dwire dwire ttery & Load Cap High Temp., Over Software) 0.2 x 21.8 9.0 x 553.7)	6" line cord with L6-30P (1) L6-30R bacity Level Load, Fault Alarm 32.1 x 10.2 x 27.0 (815.3 x 259.0 x 685.8)

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