S5KC Modular Series On-Line Uninterruptible Power Systems (UPS)

The SolaHD S5KC Modular On-Line UPS Series is scalable from 5 to 20 kVA, offering many flexible options by adding a few standard modules. Designed to be fully configured, tested and shipped in the configuration you need, the S5KC Modular UPS also has the ability to be easily upgraded in the field to either higher VA ratings (up to 20 kVA maximum), longer back-ups time or to add N+x parallel redundancy. Configurations can be cost-effectively upgraded keeping your S5KC Modular UPS current without a large reinvestment in a new system.

The optional N+x redundancy provides a fault-tolerant group of power modules and controls. The modular design is easy to upgrade so the UPS can grow with the needs of the system that is being protected.

Each of the modular components, including 5 kVA power modules, LCD display, battery modules and system control modules, can be hot-swapped making it easy to increase power, extend your back-up time or add redundancy while still providing power protection to the load.

This fault-tolerant system uses intelligent power and battery modules which take themselves off-line if there is a problem without interrupting power to the load. Self-diagnostic capabilities simplify maintenance and troubleshooting. Each unit incorporates an internal automatic bypass.

Applications

With multiple standard options in a smaller footprint, providing more flexibility for capacity and communication both pre- and post-installation, the S5KC delivers the power protection needs in applications such as

- Oil and Gas (Pure OEMs)
- Pharmaceutical
- Automotive
- Food & Beverage

Features

- Module level redundancy provides multiple layers of protection to ensure your machine has the power it needs to run safely with no single point of failure, critical loads continue to run on conditioned battery power even if a system component malfunctions.
- An industry leading 0.9 power factor keeps machines performing flawlessly when running on battery power.
- Superior overload capabilities deliver conditioned power during temporary power anomalies without unnecessarily transferring to and from bypass power.



- Independently controlled maintenance bypass is designed to provide maximum system availability to critical equipment by allowing transfer of connected equipment to an alternate power path. The UPS can then be turned Off and removed from service with no interruption of power to connected equipment.
- True on-line double conversion with a large input voltage range (low line transfer down to 110 Vac) isolates sensitive equipment from power fluctuations while minimizing transfers to increase battery life.
- ENERGY STAR[®] qualified UPS models UPS products meeting the EPA's requirements use an average of 35% less energy than their standard counterparts.
- To enhance the availability and trouble-free operation, every pre-configured S5KC UPS arrives standard with one IS-UNITY-DP communications card installed. This enables you to take advantage of the remote monitoring and diagnostic service available with your system during your initial standard warranty period.
- Start-up services available, contact your local sales representative for details.

Certifications and Compliances

All Models

- Energy Star models: S5KC-A, S5KC-B, S5KC-C (except 5 kVA), S5KC-D (except 5 kVA), S5KC-E, S5KC-F:
- cUL us Listed, UPS Equipment
 - UL 1778, Fourth Edition
- CSA C22.2 No. 107.3
- ABS Type Approved
- RoHS Compliant

Series S5KCA, S5KCB,S5KCC,S5KCD

- C € (Low Voltage and EMC Directive) - EN62040-1, EN62040-2
- EAC: TR CU 004/2011 Technical Regulation of Custom Union "On the safety of low-voltage equipment"



Uninterruptible Power Supplies

Chassis Selection

The SolaHD S5KC Modular UPS system has multiple chassis available to build on:

Select the proper chassis based on your applications current and future need for expansion. Also consider if redundancy will be required for your application then consider your application power and location wiring needs. To help with selecting the appropriate chassis series, we have provided a useful selection flow chart to guide you to an appropriate chassis series to meet your requirements.

Steps to Selection

- 1. Determine the maximum kVA you will need for future expansion.
- 2. Determine the kVA and run time value for your immediate need.
- 3. Using the flow chart to the right, determine the voltage, phase configuration and chassis requirements.
- 4. Determine if you need redundancy. If the exact run time is critical and you are not sure which unit is appropriate, please contact our technical support team to aid in selection.
- 5. Select the unit that meets both your immediate requirements, and is expandable to your future needs. Each chassis will have a "Maximum Upgrade" capacity. The Maximum Upgrade is the highest kVA expansion that particular configuration is capable of without removing any of the battery modules from the original configuration.
- 6. External Battery Cabinets (EBC). Depending on extended run-times desired or your location's spacing requirements, you may be able to add an optional EBC to extend your run-time.
- 7. Optional External Maintenance Bypass (EMB) or other available accessories. Review your application's current and future needs and consider all functional options including filters and spare modules if desired.

Which Product Do I Select?

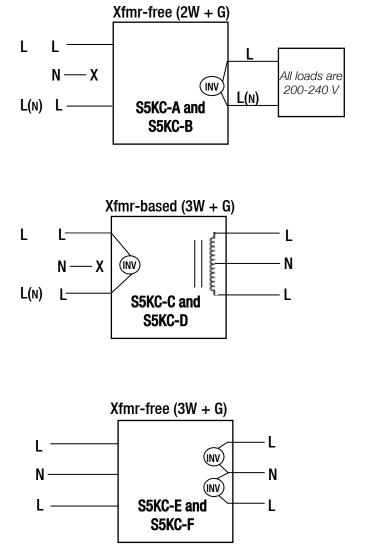
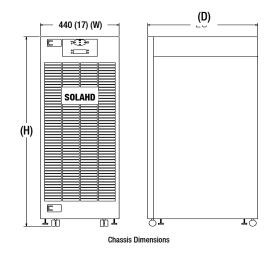


Table 15: Specifications

•		10 Bay (A)	16 Bay (B)	12 Bay (C)	16 Bay (D)	10 Bay (E)	16 Bay (F)	
		Xfmr-			-based		dual inverter	
		15 kVA	20 kVA	15 kVA	20 kVA	15 kVA	20 kVA	
Capacity		13.5 kW	18 kW	13.5 kW	18 kW	13.5 kW	18 kW	
			General	and Environment				
Conducted and radiated	d EMC levels		IEC/EN/A	S 62040-2 Cat 2, CIS	PR22 Class A, FCC F	Part 15 Class A		
Compliant immunity sta	andards			IEC/EN/AS 61	000-4-2, 3, 4, 5, 6			
Environmental				WEEE and ROHS2 (6	by 6), REACH Com	oliant		
ENERYGY STAR® qualifi	ed	Yes	Yes	Yes	Yes	Yes	Yes	
<u> </u>		All Models	All Models	10, 15, 20 kVA	10, 15, 20 kVA	All Models	All Models	
Width		440 (17)	440 (17)	440 (17)	440 (17)	440 (17)	440 (17)	
Depth		800 (32)	850 (34)	800 (32)	850 (34)	800 (32)	850 (34)	
leight		695 (27)	970 (38)	1060 (42)	1240 (49)	695 (27)	970 (38)	
	Unit Weight	256 (565)	318 (700)	361 (795)	417 (920)	256 (565)	318 (700)	
Veight (frame rating populated)	Shipping Weight	274 (605)	336 (740)	379 (835)	435 (960)	274 (605)	336 (740)	
opulatoay	Shipping weight	214 (000)		vironmental	400 (000)	214 (000)	000 (140)	
noroting tomporature					(32 °F - 104 °F)			
Dperating temperature Relative humidity					on-condensing			
Altitude					0 ft) @ 25°C (77°F)			
Efficiency (AC–AC)		91.8-92.0%	91.6-92.0%	88.5-89.9%	88.6-89.7%	90.4-91.0%	90.0-91.0%	
leat dissipation		4208 BTU / Hr	5747 BTU / Hr	5528 BTU / Hr	7965 BTU / Hr	4904 BTU / Hr	6768 BTU / H	
icut ulosipution		1200 810 / 14		nput Data	1000 010 / 11	1001010111	0100 010 / 11	
				/240 Vac; Single Phas	<u> </u>	200/100, 208	3/120, 220/110,	
Nominal input voltage		380/400/415 Vac; 3 Phase Not Applicable				240/120 Vac;		
		380/400/415	Single Phase					
Input Voltage Range		The input voltage range based on the ouput loading, refer to User Manual						
Power Factor		Single phase input, > 0.99 Cos;Single phase input, > 0.99 Costhree phase input, > 0.95 CosSingle phase input, > 0.99 Cos						
Input Frequency Range		40 Hz to 70 Hz auto-sensing						
			Rat	tery Module				
Battery capacity				36W @ 15min-rate to 1	67V per cell @ 25°C	: (77°F)		
Battery Back–up Time	(full load)	5 minut			•	, ,	r modules)	
Maximum Charge curre		5 minutes (for non-redundant system which has equal number of battery strings and power modules) Power module internal charger: 1.8A / Charger module: 10 A						
Nominal Voltage		144 VDC						
Recharge time		< 5 hours to 90% capacity (PM internal charger with 1:1 ratio of PM to Battery Strings)						
		<u> </u>		utput Data			0-7	
		000/000/000/		100/100/173/20	0,110/110/	000/100_000/1		
Output voltage		200/208/220/ Single		190/220, 115/11		200/100, 208/1 230/115, 240/120 \		
				120/120/208/240 Va		200, 110, 210, 120		
Voltage regulation		±3%						
Voltage stability (100%	step Ioad)				±7%			
Voltage Recovery time		≤ 60 minutes ≤ 3%, linear load						
Voltage distortion		≤ 5%, non-	linear load	,	-linear load	< 5% nor	n-linear load	
Output frequency		, HOII-			/60 Hz	<u> </u>		
output nequency					o continuous			
					30% for 1 min			
Output overload capabi	litv				50% for 10 sec			
output overivau capavi								
		151% - 200% for 1 sec > 201% for 250 msec						

Table 16: Mechanical Description

	Dimension mm (In)						
Chassis	Chassis Height (H) Depth (D)						
S5KC-A SERIES	695 (27)	800 (32)					
S5KC-B SERIES	970 (38)	850 (34)					
S5KC-C SERIES	1060 (42)	800 (32)					
S5KC-D SERIES	1240 (49)	850 (34)					
S5KC-E SERIES	695 (27)	800 (32)					
S5KC-F SERIES	970 (38)	850 (34)					



Chassis Designation Number of Bays		Description	
S5KC-A	10 Bay	5-15 kVA, 1PH, Xfmr-free, 200-240 Vac input/output	
S5KC-B 16 Bay 5-20 kVA, 1PH, Xfmr-free, 2		5-20 kVA, 1PH, Xfmr-free, 200-240 Vac input/output	
S5KC-C 12 Bay		5-15 kVA, 1PH, Xfmr-based, 200-240 Vac input - 200/100-240/120 Vac output	
S5KC-D 16 Bay		5-20 kVA, 1PH, Xfmr-based, 200-240 Vac input - 200/100-240/120 Vac output	
S5KC-E 10 Bay		5-15 kVA, 2PH, Xfmr-free, 200/100-240/120 Vac input/output	
S5KC-F 16 Bay		5-20 kVA, 2PH, Xfmr-free, 200/100-240/120 Vac input/output	

S5KC Operating Modes

The S5KC UPS is a true online double-conversion system, having the following operating modes:

- Normal Mode
- Back-up Mode
- Auto Restart Mode
- Bypass Mode

Normal Mode

The power module rectifiers derive power from a utility AC source and supply regulated DC power to the inverter. The module's inverter regenerates precise AC power to supply the connected equipment. The battery charger is in the power module and maintains a float-charge on the batteries of the UPS; additionally, the optional charger module (S5KCCHRGRMOD) can also charge the batteries to maintain a quicker recharge time for long back-up time applications.

Back-up Mode

When AC utility fails, the connected equipment is supplied power by the inverter, which obtains energy from the battery modules. The output power will not be interrupted during the failure or restoration of the AC utility/mains source.

Auto Restart Mode

After a power outage and complete battery discharge, and once AC utility is restored, the UPS will automatically restart and resume supplying power to connected equipment. This feature is enabled at the factory, but can be disabled by the user. The user can also program two auto restart delay settings from the LCD:

- Battery capacity level (%)
- Countdown timer

Bypass Mode

The bypass provides an alternate path for power to the connected equipment and operates in the following manner:

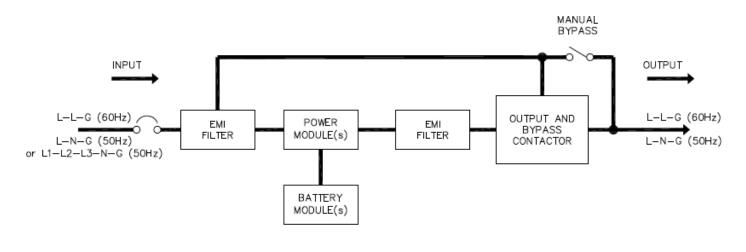
• Automatic: In the event of an internal fault or should the inverter overload capacity be exceeded, the UPS performs an automatic transfer of the connected equipment from the inverter to the bypass source.

• Manual: Should the UPS need to be taken out of service for limited maintenance or repair, manual activation of the bypass will cause an immediate transfer of the equipment from the inverter to the bypass source.



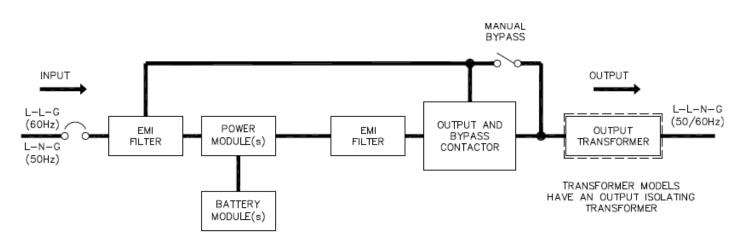
S5KC-A & S5KC-B Frames:

Xfmr-Free



S5KC-C & S5KC-D Frames:





S5KC-E & S5KC-F Frames:

Xfmr-Free

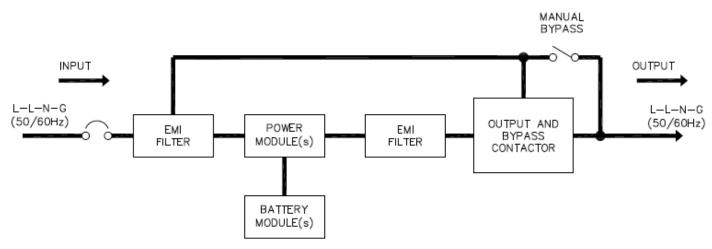




Table 17: Part Number Configuration

The S5KC modular is available in many combinations. Use the part number template below to identify the description of any given part number.

	Frame Configuration Type	System kVA / kW	Number of Charger Modules	System Type	Battery Type and Number Strings
Series Designation	A = 10 Bay, Xfmr Free, 1PH, cULus Listed, GS/ CE/C-tick Marked B = 16 Bay, Xfmr Free, 1PH, cULus Listed, GS/ CE/C-tick Marked C = 12 Bay Xfmr Based, 1PH, cULus Listed, GS/ CE/C-tick Marked D = 16 Bay Xfmr Based, 1PH, cULus Listed, GS/ CE/C-tick Marked E = 10 Bay, Xfmr Free, 2PH, cULus Listed F = 16 Bay Xfmr Free, 2PH, cULus Listed	05A = 5 kVA / 4.5 kW 10 A = 10 kVA / 9 kW 15A = 15 kVA / 13.5 kW 20A = 20 kVA / 18 kW	N = No charger module A = 1 charger module	N = Non-redundant R = Redundant Power and Controls F = Redundant Power, Controls, and Battery	NN = None (allows for empty replacement frames to be shipped) C1 = 1 String, CSB UPS 12460 F2 FR C2 = 2 Strings, CSB UPS 12460 F2 FR C3 = 3 Strings, CSB UPS 12460 F2 FR C4 = 4 Strings, CSB UPS 12460 F2 FR C5 = 5 Strings, CSB UPS 12460 F2 FR C6 = 6 Strings, CSB UPS 12460 F2 FR C7 = 7 Strings, CSB UPS 12460 F2 FR

Example: 10 Bay, 1PH, 10 kVA/9 kW, No Charger Module, Non-Redundant, 2 strings, 208V, 60 Hz, L-L-G, No Distribution Slots, Standard Product

S5K A	10 A A	N	C2
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Configuration Notes:

1. Every pre-configured S5KC UPS arrives standard with one IS-UNITY-DP communications card installed. This allows you to take advantage of the monitoring included with your system during your initial standard warranty period. Start-up services available, contact your local sales representative for details.

2. "Maximum Upgrade" capacity considerations. The Maximum Upgrade is the highest kVA expansion each configuration will provide without removing any of the battery modules from the original configuration. Please consider your future expansion and redundancy needs.

Output Voltage/Frequency/Wiring	Distribution Slot 1	Distribution Slot 2	Product Type
A = 200 V, 60Hz, L-L-G	N = None	N = None	C = Standard product
B = 220 V, 60Hz, L-L-G	1 = (2) L6-30R, (8) 5-15/20R [PD2-101]	1 = (2) L6-30R, (8) 5-15/20R [PD2-101]	
C = 208V, 60Hz, L-L-G	2 = (4) L6-20R, (4) 5-15/20R [PD2-102]	2 = (4) L6-20R, (4) 5-15/20R [PD2-102]	
D = 240 V, 60Hz, L-L-G	3 = (4) L6-30R, (4) 5-15/20R [PD2-103]	3 = (4) L6-30R, (4) 5-15/20R [PD2-103]	
E = 200/100 V, 60Hz, L-L-N-G	4 = (2) L6-30R, (2) L6-20R, (4) 5-15/20R [PD2-104]	4 = (2) L6-30R, (2) L6-20R, (4) 5-15/20R [PD2-104]	
F = 220/110 V, 60Hz, L-L-N-G G = 208/120 V, 60Hz, L-L-N-G	5 = (2) L5-30R, (2) L5-20R, (4) 5-15/20R [PD2-105]	5 = (2) L5-30R, (2) L5-20R, (4) 5-15/20R [PD2-105]	
H = 240/120 V, 60Hz, L-L-N-G	6 = (4) L6-20R, (4) L5-20R [PD2-106]	6 = (4) L6-20R, (4) L5-20R [PD2-106]	
J = 220/127V, 60Hz, L-L-N-G	7 = (4) L5-20R, (4) 5-15/20R [PD2-107]	7 = (4) L5-20R, (4) 5-15/20R [PD2-107]	
K = 200 V, 50Hz, L-L-PE	8 = (2) L6-30R, (2) L6-20R [PD2-108]	8 = (2) L6-30R, (2) L6-20R [PD2-108]	
L = 220 V, 50Hz, L-N-PE	9 = (2) L14-30R [PD2-109]	9 = (2) L14-30R [PD2-109]	
M = 230 V, 50Hz, L-N-PE	A = (4) IEC320-C19, (4) IEC320-C13	A = (4) IEC320-C19, (4) IEC320-C13	
N = 240 V, 50Hz, L-N-PE	[PD2-200]	[PD2-200]	
P = 208V, 50Hz, L-L-PE	B = (2) IEC320-C19, (8) IEC320-C13 [PD2-201]	B = (2) IEC320-C19, (8) IEC320-C13 [PD2-201]	
Q = 200/100 V, 50Hz, L-L-N-PE	C = (12) IEC320-C13 [PD2-202]	C = (12) IEC320-C13 [PD2-202]	
R = 208/120 V, 50Hz, L-L-N-PE	D = (2) IEC309-32A, (4) IEC320-C13	D = (2) IEC309-32A, (4) IEC320-C13	
S = 220/110 V, 50Hz, L-L-N-PE	[PD2-204]	[PD2-204]	
T = 230/115 V, 50Hz, L-L-N-PE			
U = 240/120 V, 50Hz, L-L-N-PE			
W = 220/127V, 50Hz, L-L-N-PE			

C N N C	
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Table 18: Basic Recommended Part Numbers (scalable for your application needs)

Back-up time: 5 minutes minimum at full load with 1-battery string per 5 kVA \odot

kVA/kW	Non–Redundant Catalog Number	Available Expansion Bays (Total/Power)	Redundant Catalog Number	Available Expansion Bay: (Total/Power)
		S5KA Xfmr-Free (2W + C	a)	i
5/4.5	S5KA05ANNC1 C NNC	7/2	S5KA05ANRC1 C NNC	6/2
10/9	S5KA10 ANNC2CNNC	5/1	S5KA10 ANRC2CNNC	3/1
15/13.5	S5KA15ANNC3CNNC	1/0	S5KA15ANRC3CNNC	0/0
		S5KB Xfmr-Free (2W + 0	Э)	
5/4.5	S5KB05ANNC1CNNC	13/3	S5KB05ANRC1CNNC	12/3
10/9	S5KB10 ANNC2CNNC	10/2	S5KB10 ANRC2 C NNC	9/2
15/13.5	S5KB15ANNC3 C NNC	7/1	S5KB15ANRC3 C NNC	6/1
20/18	S5KB20ANNC4 C NNC	4/0	S5KB20ANRC4 C NNC	3/0
	S5KC X	fmr-Based (Input: 2W + G, O	utput: 3W + G)	
5/4.5	S5KC05ANNC1 G NNC	9/2	S5KC05ANRC1GNNC	8/2
10/9	S5KC10 ANNC2GNNC	6/1	S5KC10 ANRC2GNNC	5/1
15/13.5	S5KC15ANNC3 G NNC	3/0	S5KC15ANRC3GNNC	2/0
	S5KD X	fmr-Based (Input: 2W + G, O	utput: 3W + G)	
5/4.5	S5KD05ANNC1GNNC	13/3	S5KD05ANRC1GNNC	12/3
10/9	S5KD10 ANNC2GNNC	10/2	S5KD10 ANRC2GNNC	9/2
15/13.5	S5KD15ANNC3 G NNC	7/1	S5KD15ANRC3 G NNC	6/1
20/18	S5KD20ANNC4 G NNC	4/0	S5KD20ANRC4 G NNC	3/0
		S5KE Xfmr-Free (3W + 0	a)	
5/4.5	S5KE05ANNC1GNNC	7/2	S5KE05ANRC1GNNC	6/2
10/9	S5KE10 ANNC2GNNC	5/1	S5KE10 ANRC2GNNC	3/1
15/13.5	S5KE15ANNC3GNNC	1/0	S5KE15ANRC3 G NNC	0/0
		S5KF Xfmr-Free (3W + 0	a)	
5/4.5	S5KF05ANNC1GNNC	13/3	S5KF05ANRC1GNNC	12/3
10/9	S5KF10 ANNC2GNNC	10/2	S5KF10 ANRC2GNNC	9/2
15/13.5	S5KF15ANNC3 G NNC	7/1	S5KF15ANRC3 G NNC	6/1
20/18	S5KF20ANNC4 G NNC	4/0	S5KF20ANRC4GNNC	3/0

Configuration Notes:

1. Voltage Options: Additional Output Voltage Configurations are available. Refer to Table 16 and 18, part number configuration template table. Example: D = 240 V, 60Hz, L-L-G ; S5KC05ANN1DNNC is a 240 V configuration.

2. Every pre-configured S5KC UPS arrives standard with one IS-UNITY-DP communications card installed. This allows you to take advantage of the monitoring included with your system during your initial standard warranty period. Start-up services available, contact your local sales representative for details.

3. Available Expansion Bays (Total/Power) equals the TOTAL available expansion bays still available and POWER is the number of bays that can be used for remaining POWER modules up to the maximum allowed for that configuration. For example: S5KA05ANNC1**C**NNC, has 7 total, 2 power so you can add either 6 battery modules, 1 charging module or 6 battery modules and 2 power modules.

4. Do you require an EBC or MBC? Please refer to configuration table 20 and 21 to build an appropriate part.

① Configurations with run-times in excess of 5 minutes are available, contact Technical Services.



Table 19: External Battery Cabinet (EBC) Part Number Configuration

The SolaHD S5KC Modular UPS includes internal batteries. Optional, matching external battery cabinets, offer extended battery runtime. Use the part number template below to identify the description of any given part number.

Specifications

Mechanical	Mechanical					
Conducted and Radiated EMC Levels	IEC/EN/AS 62040-2-Class A, FCC Part 15 (Class A)					
Safety Standards	IEC/EN/AS 62040-1:2008, UL 1778 4th Ed and CSA 22.2 No. 107.3					
Immunity Standards	IEC/EN/AS 61000-4-2, 3, 4, 5, 6 (C-tick)					
Transportation	ISTA-1E					
Dimensions – WxDxH in (mm)	17 x 28 x 38 (440 x 712 x 970)					
Unit Weight – Ibs (kg)	170 (77.1)					
Shipping Weight – Ibs (kg)	210 (129.3)					
Environmental						
Operating Temperature °F (°C)	32 to 104 (0 to 40)					
Storage Temperature, °F (°C)	Without battery: -4 to 140 (-20 to 60) With battery: 5 to 104 (-15 to 40)					
Relative Humidity, %	0 - 95%, non-condensing					
Altitude, ft. (m)	10000 (3000)					



		Number of Battery Strings	Battery Manufacturer	Battery Model	Overcurrent Protection	Product Type	
		1 = 1 String	C = CSB	XX = CSB UPS 12460 F2 FR	B = Circuit Breaker	C = Standard product	
		2 = 2 Strings 3 = 3 Strings	N = None (allows for empty replacement frames to be shipped)	NN = None (allows for empty			
Series Designation	Frame Configuration Type	4 = 4 Strings		replacement frames to be shipped)			
Designation	турс	5 = 5 Strings					
		6 = 6 Strings 7 = 7 Strings					
		N = None (allows for empty replacement frames to be shipped)					
	Example: 4 String, CSB, CSB UPS 12460 F2 FR, Circuit Breaker, Standard Product						
S5K	EBC	4	C	XX	В	С	

Table 20: Maintenance Bypass Options

The S5KC Modular Series Maintenance Bypass provides maximum system availability to business critical equipment by allowing transfer of connected equipment to an alternate power path allowing full isolation of the UPS for maintenance. The UPS can then be turned Off and removed from service with no interruption of power to connected equipment.



Specifications

Mechanical					
Dimensions – W x D x H, mm (In)	440 x 862 355 (17.3 x 33.9 x 14.3)				
Safety Standards	IEC/EN/AS 62040-1:2008, UL 1778 4th Ed and CSA 22.2 No. 107.3				
Transportation	ISTA Procedure 1A				
Weight – kg (lbs)	30 (66.1)				
Environmental					
Operating Ambient Temperature	0°C to +40°C (32°F to 104°F)				
Storage Ambient Temperature	-20°C to +60°C (-4°F to +140°F)				
Humidity	0 to 95% non-condensing				

		Mounting	Rating	Voltage/Frequency/ Wiring	Agency	Distribution Slot 1	Distribution Slot 2	Product Type
Series Designation	Frame Configuration Type	R = Rackmount	1 = 15 kVA, 100A 2 = 20 kVA, 125 A	A = 200 V, 60Hz, L-L-G B = 220 V, 60Hz, L-L-G C = 208V, 60Hz, L-L-G D = 240 V, 60Hz, L-L-G E = 200/100 V, 60Hz, L-L-N-G F = 220/110 V, 60Hz, L-L-N-G G = 208/120 V, 60Hz, L-L-N-G H = 240/120 V, 60Hz, L-L-N-G J = 220/127V, 60Hz, L-L-N-G	U = cULus	N = None 1 = (2) L6-30R, (8) 5-15/20R [PD2-101] 2 = (4) L6-20R, (4) 5-15/20R [PD2-102] 3 = (4) L6-30R, (4) 5-15/20R [PD2-103] 4 = (2) L6-30R, (4) 5-15/20R [PD2-104] 5 = (2) L5-30R, (2) L5-20R, (4) 5-15/20R [PD2-105] 6 = (4) L6-20R, (4) L5-20R [PD2-106] 7 = (4) L5-20R, (4) 5-15/20R [PD2-106] 7 = (4) L5-20R, (4) 5-15/20R [PD2-107] 8 = (2) L6-30R, (2) L6-20R [PD2-108] 9 = (2) L14-30R [PD2-109] A = (4) IEC320-C19, (4) IEC320-C13 [PD2-200] B = (2) IEC320-C19, (8) IEC320-C13 [PD2-202] D = (2) IEC309-32A, (4) IEC320-C13 [PD2-204]	$\begin{split} &N = None \\ &1 = (2) \ L6-30R, (8) \\ &5-15/20R \ [PD2-101] \\ &2 = (4) \ L6-20R, (4) \\ &5-15/20R \ [PD2-102] \\ &3 = (4) \ L6-30R, (4) \\ &5-15/20R \ [PD2-103] \\ &4 = (2) \ L6-30R, (4) \\ &5-15/20R \ [PD2-104] \\ &5 = (2) \ L5-30R, (2) \\ &L5-20R, (4) \\ &5-15/20R \ [PD2-105] \\ &6 = (4) \ L6-20R, (4) \\ &L5-20R \ [PD2-106] \\ &7 = (4) \ L5-20R, (4) \\ &5-15/20R \ [PD2-106] \\ &7 = (4) \ L5-20R, (4) \\ &5-15/20R \ [PD2-107] \\ &8 = (2) \ L6-30R, (2) \\ &L6-20R \ [PD2-107] \\ &8 = (2) \ L6-30R, (2) \\ &L6-20R \ [PD2-108] \\ &9 = (2) \ L14-30R \\ [PD2-109] \\ &A = (4) \ IEC320-C19, \\ &(4) \ IEC320-C19, \\ &(3) \ IEC320-C13 \\ [PD2-200] \\ &B = (2) \ IEC320-C19, \\ &(3) \ IEC320-C13 \\ [PD2-201] \\ &C = (12) \ IEC320-C13 \\ &(4) \ IEC320-C13 \\ [PD2-202] \\ &D = (2) \ IEC320-C13 \\ &(4) \ IEC320-C13 \\ [PD2-204] \\ \end{split}$	C = Standard product
		•		A, 208V, 60Hz, L-L-G,	,	sted, No Distribution Slo		
S5K	MBC	R	1	C	U	N	N	C

NOTES:

RM-MBC (Rack Mount - Maintenance By-Pass Cabinet)



Optional Equipment

Catalog Number	Description
Communication Options	
IS-UNITY-DP	IS Communications Card for multiple protocols: BACnet, Modbus, SNMP, Web, YDN23
IS-RELAY	Relay contact board, relay contact signals for "On Battery", "Low Battery", "On Bypass", "On UPS", "Summary Alarm" and "UPS Fault".
S5KREPOKIT	Remote Emergency Power Off Kit includes 50' length of cable with connector to UPS and external push button switch.

Optional Equipment

Model Number	Description	
S5KCRACKKIT	Rackmount Kit	
S5KCEBCCBL1M	EBC Cable 1 meter	
S5KCEBCCBL3M	EBC Cable 3 meters	
S5KCEBCCBL5M	EBC Cable 5 meters	
S5KCLRTCONNKIT	LRT Connector Kit	
S5KCLRTTEMPKIT	LRT Temperature Sensor Kit	
S5KCCHRGRMOD	Charger Module, 10 amps	
S5KCEBCCARD	EBC Communication Card	
S5KCBATMODCU	Expansion Battery to increase run time. Note: Each kit includes one string (2 modules)	

Spare Equipment Parts

Model Number	Description	
S5KC5KPWRMOD1	Power Module (PM1), 208/120 Vac, 5 kVA / 4.5kW (E & F Chassis)	
S5KC5KPWRMOD2	Power Module (PM2), 230, 208 Vac, 5 kVA / 4.5kW (A, B, C & D Chassis)	
S5KCBATMODCU	Replacement Battery Note: Each kit includes one string (2 modules)	
S5KCBYPDSPMOD	Bypass DSP Module	
S5KCBYPMCUMOD	Bypass MCU Module	
S5KCLCDMOD	LCD module	
S5KCAFLTRKIT	Air Filter Kit	
S5KCAFLTRKIT-FD	Fine Dust Air Filter Kit	
S5KCBEZELHMI	Metal HMI Bezel with Display Opening and Filter	
S5KCBEZEL	Metal Bezel for Module Bays and Filter	

S5KCCHRGRMOD, Charger Module

In AC mains mode, the charger module charges the system battery modules or external battery cabinet. Each charger module is rated to deliver 10 A charging current. The charger module has an independent control function and maintains real-time communication with the system and the battery modules to ensure stable charging and fault protection.

The charger module may be added or replaced on-line with no interruption or danger to the user, connected battery system or connected equipment.

Example: 10-Bay Configuration (S5KC Chassis E and F)

S5KC5KPWRMOD1	(P, B, C) *	
(P, B, C) *	(P, B, C) *	
S5KCBATM0DCU = 2 Modules or 1 string		
B **	B **	
B **	B **	

P = Power module

B = Battery module

C = Charger module

* Where you have an empty spot you can add a power, battery or charger.

** Battery module only.

UPS Extended Warranty Offering for the SolaHD S1K, S3K and S4K Series

S1K

Catalog Number	Description	
1-Year Extended Warranty		
1EWPS1K320	1-year extended warranty for S1K320	
1EWPS1K520	1-year extended warranty for S1K520	
1EWPS1K650	1-year extended warranty for S1K650	
1EWPS1K850	1-year extended warranty for S1K850	
1EWPS1K1200	1-year extended warranty for S1K1200	
1EWPS1K1500	1-year extended warranty for S1K1500	
3–Year Extended Warranty		
3EWPS1K320	3-year extended warranty for S1K320	
3EWPS1K520	3-year extended warranty for S1K520	
3EWPS1K650	3-year extended warranty for S1K650	
3EWPS1K850	3-year extended warranty for S1K850	
3EWPS1K1200	3-year extended warranty for S1K1200	
3EWPS1K1500	3-year extended warranty for S1K1500	

S3K

Catalog Number	Description	
1–Year Extended Warranty		
1EWPS3K700	1-year extended warranty for S3K700	
1EWPS3K1000	1-year extended warranty for S3K1000	
1EWPS3K1600	1-year extended warranty for S3K1600	
3–Year Extended Warranty		
3EWPS3K700	3-year extended warranty for S3K700	
3EWPS3K1000	3-year extended warranty for S3K1000	
3EWPS3K1600	3-year extended warranty for S3K1600	

S4K4UC AND S4K6UC - Maintenance Bypass Switch

Catalog Number	Description	
1-Year Extended Warranty		
1EWPS4K06KPAD	1-year extended warranty for S4K4UC PADs	
1EWPS4K10KPAD	1-year extended warranty for S4K6UC PADs	
3-Year Extended Warranty		
3EWPS4K06KPAD	3-year extended warranty for S4K4UC PADs	
3EWPS4K10KPAD	3-year extended warranty for S4K6UC PADs	

S4KC Industrial - UPS Models

The extended warranty program extends the standard two-year product warranty by the term of the extension purchased, 1-year or 3 years. This results in warranty terms of 3 or 5 years (depending on the extension selected) from the date of purchase. We will repair or replace the SolaHD unit at any point during the extension period, subject to the same conditions as the standard warranty. The warranty extension is not transferable.

Catalog Number	Description	
1–Year Extended Warranty		
1EWPS4K2U700C	1-year extended warranty for S4K2U700C	
1EWPS4K2U1000C	1-year extended warranty for S4K2U1000C	
1EWPS4K2U1500C	1-year extended warranty for S4K2U1500C	
1EWPS4K2U2000C	1-year extended warranty for S4K2U2000C	
1EWPS4K2U3000C	1-year extended warranty for S4K2U3000C	
1EWPS4K4U6000C	1-year extended warranty for S4K4U6000C	
1EWPS4K6U10KC	1-year extended warranty for S4K6U10KC	
3–Year Extended Warranty		
3EWPS4K2U700C	3-year extended warranty for S4K2U700C	
3EWPS4K2U1000C	3-year extended warranty for S4K2U1000C	
3EWPS4K2U1500C	3-year extended warranty for S4K2U1500C	
3EWPS4K2U2000C	3-year extended warranty for S4K2U2000C	
3EWPS4K2U3000C	3-year extended warranty for S4K2U3000C	
3EWPS4K4U6000C	3-year extended warranty for S4K4U6000C	
3EWPS4K6U10KC	3-year extended warranty for S4K6U10KC	

Note: Warranty on S4K4U6000 covers electronics and internal battery.

S4KC Industrial - Battery Cabinets

Catalog Number	Description	
1–Year Extended Warranty		
1EWPS4K2U48BATC	1-year extended warranty for S4K2U48BATC	
1EWPS4K2U96BATC	1-year extended warranty for S4K2U96BATC	
1EWPS4K144BATC	1-year extended warranty for S4K144BATC	
1EWPS4K288BATC	1-year extended warranty for S4K288BATC	
3-Year Extended Warranty		
3EWPS4K2U48BATC	3-year extended warranty for S4K2U48BATC	
3EWPS4K2U96BATC	3-year extended warranty for S4K2U96BATC	
3EWPS4K144BATC	3-year extended warranty for S4K144BATC	
3EWPS4K288BATC	3-year extended warranty for S4K288BATC	

Field Service Programs for the S5KC Series

These programs are for Domestic coverage (valid only within the continental United States and Canada); additional travel expenses may be billed to customers with site locations more than 150 miles from a major metropolitan area.

S5KC Modular Start-Up Programs

Start-up services should be ordered as a separate line item at the time of purchase. S5KC Series UPS sold with start-up Services are provided with a 2 year parts and labor warranty. Please refer to the following information for a menu of start-up options and please choose the appropriate start-up service required. If start-up is not ordered and performed, please note that this will reduce your warranty period to two years of parts and, 90 days labor.

A separate Preventative Maintenance Only plan is available in addition to the standard Start-Up plan.

Service Programs - S5KC Series

Preferred service level options include 6-hour on-site response, 24x7 within 150 miles of nearest service centers. 24x7 emergency service includes parts (including internal batteries), labor, and travel. Also includes one (1) Preventive Maintenance (PM) visit per year, scheduled at the customer's convenience (24x7).

Essential service level options include 6-hour on-site response, 24x7 within 150 miles of nearest service centers. 24x7 emergency service includes parts (including internal batteries), labor, and travel. Also includes one (1) Preventive Maintenance (PM) visit per year, scheduled by the customer for M-F 8AM-5PM.

Basic service level options include 6-hour on-site response, 24x7 within 150 miles of nearest service centers. 24x7 emergency service includes parts (excluding internal batteries), labor, and travel. Preventive Maintenance (PM) not included and is not available if the Basic Service plan is selected.

Field Service Programs for the S5KC Series

Catalog Number	Equipment
SUS5KCXXMF	S5KC Start-Up Monday-Friday 8-5
SUS5KCXX24	S5KC Start-Up 7x24
SUPS5KCXXMF	S5KC Start-Up Plus M-F 8-5 w/1PM over initial warranty period
SUPS5KCXX24	S5KC Start-Up Plus 7x24 w/1PM over initial warranty period

PM = Preventative Maintenance

S5KC Modular Service Programs

Contact Technical Services to obtain the catalog number for any of the Preferred, Essential or Basic Services (catalog number depends on the S5KC configuration).

- X = Number of Power/Charger Modules (#1 through #6)
- YY = Number of Battery Modules (#01 through #07)

Catalog Number	Service Program
MUUS5KCXPRYY	Preferred Service
MUUS5KCXESYY	Essential Service
MUUS5KCXBAYY	Basic Service
MS5KC1PM24	PM Only (7-Days/Week, 24 Hrs/Day) for all configurations

Note: Service programs are valid for one year.



ООО "ЛайфЭлектроникс"

ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 3010181090000000703 БИК 044030703

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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