SureWave SFC Lifecycle Management

Fast response kits

Item					Recommended holding for SureWave SFC installed base								
			250kVA to 750kVA	1.0MVA to 5MVA	2.25MVA to 5MVA	> 5MVA							
SureWave level 1 spares kit	2UCS420000B001	Fuses, PEBB 120 fan, some cables, fiber optics, fastenings	1										
SureWave level 2 spares kit	2UCS420000B002	Level 1 + PSU, buffer, PCBAs, GDM, more fibre optics		1									
SureWave level 3 spares kit	2UCS420000B003	Level 2 + controller, remaining control cables & fiber optics			1	1 - 2							
PCS120 PEBB A	2UCS000450B601	Power electronic building block	0 - 1	1	1 - 2	2 - 3							
PEBB module extractor - service tool	2UCS390000B001	Module extractor, fits to a fork lift for extracting and reinstalling PEBB modules	1	1	1	1							

Service contracts

Service contracts				
Contract Name/Content	Regular inspections, digital analysis of SureWave operation with condition based service recommendations		24/7 access to factory service hotline for SureWave trained service engineers	Typical contact duration
PCS Bronze	√			Renewed annually
PCS Bronze + 24/7 factory hotline	√		1	Renewed annually
PCS Extended Warranty	✓	√		3 to 5 years = 2 years manufactures
PCS Extended Warranty + 24/7 factory hotline	1	√	1	warranty + up to 3 years extended warranty



Operational resilience plan																
1 x SureWave 2.25 MVA IP42																
Clean environment: 15 to 25°C 59 to 77°	°F	Commissioning Inspec	tion Inspection	Service	Inspection	Inspection	Service	Inspection	Inspection	Service	Service	Inspection	Service	Inspection	Inspection	Inspection
		0 Year	1 Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Item	Ordering code															
Power Supply 24 V 40 A	2UCS002580B027										6 pcs					
Buffer 24 Vdc	2UCS002580B021										3 pcs					
Busbar contact grease	2UCS004403B007						1 pcs						1 pcs			
PEBB fan assy	2UCS000451B617						18 pcs						18 pcs			
PEBB air filter (6 pcs)*	2UCS390000B002						3 pcs						3 pcs			
PEBB AC cap assy	2UCS000451B603										18 pcs					
Enclosure air filter cartridge (4 pcs)	2UCS390000B003			3 pcs			3 pcs			3 pcs			3 pcs			
Input and output breakers	Refer to ABB library document 1SDH001000R	.0002														
Site hours		Year		Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Software upgrade (if available or required)		1 hr	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs
Consumables replacement				2 hrs			11 hrs			2 hrs	9 hrs		11 hrs			
Annual inspection & Service log download		4 hr	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs
Total		5 hr	5 hrs	7 hrs	5 hrs	5 hrs	16 hrs	5 hrs	5 hrs	7 hrs	14 hrs	5 hrs	16 hrs	5 hrs	5 hrs	4 hrs
Legend	Description							Supporting	Documents							
	Recommended consumable replacement inter	rval for 24/7 operation in	n airconditioned	clean enviro	onment of 15°C	to 25°C, 59°C t	to 77°F	2UCD420000	E404	SureWave F	ast Respons	e Kits				
	Consumable replacment region based on appl	lication and environmenta	data analysis					2UCD420000E400 SureWave SFC Service Manual								
*	Air filter for PEBB module control electronics,	can be cleaned or replace	d with a new par	t				2UCD000026	-S	PCS Extende	ed Warranty	Digital Mainten	ance Progra	m		
								2UCD000011	-S	PCS Bronze	Digital Main	tenance Program	m			

Fast response kits

Item	Part number	Recommended holding for SureWave SFC installed base									
			250kVA to 750kVA	1.0MVA to 5MVA	2.25MVA to 5MVA	> 5MVA					
SureWave level 1 spares kit	2UCS420000B001	Fuses, PEBB 120 fan, some cables, fiber optics, fastenings	1								
SureWave level 2 spares kit	2UCS420000B002	Level 1 + PSU, buffer, PCBAs, GDM, more fibre optics		1							
SureWave level 3 spares kit	2UCS420000B003	Level 2 + controller, remaining control cables & fiber optics			1	1 - 2					
PCS120 PEBB A	2UCS000450B601	Power electronic building block	0 - 1	1	1 - 2	2 - 3					
PEBB module extractor - service tool	2UCS390000B001	Module extractor, fits to a fork lift for extracting and reinstalling PEBB modules	1	1	1	1					

Service contracts

Service contracts				
Contract Name/Content	Regular inspections, digital analysis of SureWave operation with condition based service recommendations		24/7 access to factory service hotline for SureWave trained service engineers	Typical contact duration
PCS Bronze	✓			Renewed annually
PCS Bronze + 24/7 factory hotline	1		1	Renewed annually
PCS Extended Warranty	√	4		3 to 5 years = 2 years manufactures
PCS Extended Warranty + 24/7 factory hotline	√	√	1	warranty + up to 3 years extended warranty



Operational resilience plan																
1 x SureWave 2.0 MVA IP42																
Clean environment: 15 to 25oC 59 to 77	7oF	Commissioning Inspection	n Inspection	Service	Inspection	Inspection	Service	Inspection	Inspection	Service	Service	Inspection	Service	Inspection	Inspection	Inspection
		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Item	Ordering code															
Power Supply 24 V 40 A	2UCS002580B027										6 pcs					
Buffer 24 Vdc	2UCS002580B021										3 pcs					
Busbar contact grease	2UCS004403B007						1 pcs						1 pcs			
PEBB fan assy	2UCS000451B617						16 pcs						16 pcs			
PEBB air filter (6 pcs)*	2UCS390000B002						3 pcs						3 pcs			
PEBB AC cap assy	2UCS000451B603										16 pcs					
Enclosure air filter cartridge (4 pcs)	2UCS390000B003			3 pcs			3 pcs			3 pcs			3 pcs			
Input and output breakers	Refer to ABB library document 1SDH001000F	R0002														
Site hours		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Software upgrade (if available or required)		1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs
Consumables replacement				2 hrs			10 hrs			2 hrs	9 hrs		10 hrs			
Annual inspection & Service log download		4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs
Total		5 hrs	5 hrs	7 hrs	5 hrs	5 hrs	15 hrs	5 hrs	5 hrs	7 hrs	14 hrs	5 hrs	15 hrs	5 hrs	5 hrs	4 hrs
Legend	Description							Supporting	Documents							
	Recommended consumable replacement inte	rval for 24/7 operation in an	airconditioned	clean enviro	nment of 15°C	to 25°C, 59°C	to 77°F	2UCD420000	E404	SureWave F	ast Response	e Kits				
	Consumable replacment region based on app	olication and environmental d	ata analysis					2UCD420000	E400	SureWave S	FC Service N	1anual				
*	Air filter for PEBB module control electronics,	, can be cleaned or replaced v	with a new part					2UCD000026	-S	PCS Extende	ed Warranty	Digital Mainten	ance Progra	m		
								2UCD000011	-S	PCS Bronze	Digital Main	enance Program	m			

Fast response kits

Item	Part number	Recommended holding for SureWave SFC installed base									
			250kVA to 750kVA	1.0MVA to 5MVA	2.25MVA to 5MVA	> 5MVA					
SureWave level 1 spares kit	2UCS420000B001	Fuses, PEBB 120 fan, some cables, fiber optics, fastenings	1								
SureWave level 2 spares kit	2UCS420000B002	Level 1 + PSU, buffer, PCBAs, GDM, more fibre optics		1							
SureWave level 3 spares kit	2UCS420000B003	Level 2 + controller, remaining control cables & fiber optics			1	1 - 2					
PCS120 PEBB A	2UCS000450B601	Power electronic building block	0 - 1	1	1 - 2	2 - 3					
PEBB module extractor - service tool	2UCS390000B001	Module extractor, fits to a fork lift for extracting and reinstalling PEBB modules	1	1	1	1					

Service contracts

Service contracts				
Contract Name/Content	Regular inspections, digital analysis of SureWave operation with condition based service recommendations		24/7 access to factory service hotline for SureWave trained service engineers	Typical contact duration
PCS Bronze	✓			Renewed annually
PCS Bronze + 24/7 factory hotline	4		✓	Renewed annually
PCS Extended Warranty	1	4		3 to 5 years = 2 years manufactures
PCS Extended Warranty + 24/7 factory hotline	1	√	1	warranty + up to 3 years extended warranty



Operational resilience plan																	
1 x SureWave 1.75 MVA IP42																	
Clean environment: 15 to 25oC 59 to77o	oF	Commissioning	Inspection	Inspection	Service	Inspection	Inspection	Service	Inspection	Inspection	Service	Service	Inspection	Service	Inspection	Inspection	Inspection
			Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Item	Ordering code																
Power Supply 24 V 40 A	2UCS002580B027											6 pcs					
Buffer 24 Vdc	2UCS002580B021											3 pcs					
Busbar contact grease	2UCS004403B007							1 pcs						1 pcs			
PEBB fan assy	2UCS000451B617							14 pcs						14 pcs			
PEBB air filter (6 pcs)*	2UCS390000B002							3 pcs						3 pcs			
PEBB AC cap assy	2UCS000451B603											14 pcs					
Enclosure air filter cartridge (4 pcs)	2UCS390000B003				3 pcs			3 pcs			3 pcs			3 pcs			
Input and output breakers	Refer to ABB library document 1SDH001000	R0002															
Site hours			Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Software upgrade (if available or required)			1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs
Consumables replacement					2 hrs			9 hrs			2 hrs	8 hrs		9 hrs			
Annual inspection & Service log download			4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs
Total		-	5 hrs	5 hrs	7 hrs	5 hrs	5 hrs	14 hrs	5 hrs	5 hrs	7 hrs	13 hrs	5 hrs	14 hrs	5 hrs	5 hrs	4 hrs
Legend	Description								Supporting I	Documents							
	Recommended consumable replacement into	erval for 24/7 opera	tion in an ai	irconditioned o	lean enviro	nment of 15°C	to 25°C, 59°C	:o 77°F	2UCD420000E	E 404	SureWave F	ast Respons	e Kits				
	Consumable replacment region based on ap	plication and enviro	nmental dat	ta analysis					2UCD4200008	E400	SureWave S	FC Service N	1anual				
*	Air filter for PEBB module control electronics	s, can be cleaned or	replaced wi	ith a new part					2UCD000026-	-S	PCS Extende	ed Warranty	Digital Mainten	ance Progra	m		
									2UCD000011-	·S	PCS Bronze	Digital Main	tenance Progran	n			

Fast response kits

Item	Part number	Recommended holding for SureWave SFC installed base								
			250kVA to 750kVA	1.0MVA to 5MVA	2.25MVA to 5MVA	> 5MVA				
SureWave level 1 spares kit	2UCS420000B001	Fuses, PEBB 120 fan, some cables, fiber optics, fastenings	1							
SureWave level 2 spares kit	2UCS420000B002	Level 1 + PSU, buffer, PCBAs, GDM, more fibre optics		1						
SureWave level 3 spares kit	2UCS420000B003	Level 2 + controller, remaining control cables & fiber optics			1	1 - 2				
PCS120 PEBB A	2UCS000450B601	Power electronic building block	0 - 1	1	1 - 2	2 - 3				
PEBB module extractor - service tool	2UCS390000B001	Module extractor, fits to a fork lift for extracting and reinstalling PEBB modules	1	1	1	1				

Service contracts

Service contracts				
Contract Name/Content	Regular inspections, digital analysis of SureWave operation with condition based service recommendations		24/7 access to factory service hotline for SureWave trained service engineers	Typical contact duration
PCS Bronze	✓			Renewed annually
PCS Bronze + 24/7 factory hotline	1		1	Renewed annually
PCS Extended Warranty	√	4		3 to 5 years = 2 years manufactures
PCS Extended Warranty + 24/7 factory hotline	√	√	1	warranty + up to 3 years extended warranty



Operational resilience plan																	
1 x SureWave 1.5 MVA IP42																	
Clean environment: 15 to 25oC 59 to77o	oF (Commissioning In	nspection	Inspection	Service	Inspection	Inspection	Service	Inspection	Inspection	Service	Service	Inspection	Service	Inspection	Inspection	Inspection
			Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Item	Ordering code																
Power Supply 24 V 40 A	2UCS002580B027											4 pcs					
Buffer 24 Vdc	2UCS002580B021											2 pcs					
Busbar contact grease	2UCS004403B007							1 pcs						1 pcs			
PEBB fan assy	2UCS000451B617							12 pcs						12 pcs			
PEBB air filter (6 pcs)*	2UCS390000B002							2 pcs						2 pcs			
PEBB AC cap assy	2UCS000451B603											12 pcs					
Enclosure air filter cartridge (4 pcs)	2UCS390000B003				2 pcs			2 pcs			2 pcs			2 pcs			
Input and output breakers	Refer to ABB library document 1SDH001000R	.0002															
Site hours			Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Software upgrade (if available or required)			1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs
Consumables replacement					1 hrs			8 hrs			1 hrs	6 hrs		8 hrs			
Annual inspection & Service log download			3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs
Total		_	4 hrs	4 hrs	5 hrs	4 hrs	4 hrs	12 hrs	4 hrs	4 hrs	5 hrs	10 hrs	4 hrs	12 hrs	4 hrs	4 hrs	3 hrs
Legend	Description								Supporting	Documents							
	Recommended consumable replacement inter	rval for 24/7 operation	on in an air	conditioned of	lean enviro	nment of 15°C	to 25°C, 59°C	to 77°F	2UCD420000	E404	SureWave F	ast Respons	e Kits				
	Consumable replacment region based on appl	lication and environ	mental data	a analysis					2UCD420000	E400	SureWave S	FC Service N	1anual				
*	Air filter for PEBB module control electronics,	can be cleaned or re	eplaced wit	h a new part					2UCD000026	-S	PCS Extende	ed Warranty	Digital Mainten	ance Progra	m		
									2UCD000011	-S	PCS Bronze	Digital Main	tenance Progran	n			

Fast response kits

Item	Part number	Description	Recommended holding for SureWave SFC installed base								
			250kVA to 750kVA	1.0MVA to 5MVA	2.25MVA to 5MVA	> 5MVA					
SureWave level 1 spares kit	2UCS420000B001	Fuses, PEBB 120 fan, some cables, fiber optics, fastenings	1								
SureWave level 2 spares kit	2UCS420000B002	Level 1 + PSU, buffer, PCBAs, GDM, more fibre optics		1							
SureWave level 3 spares kit	2UCS420000B003	Level 2 + controller, remaining control cables & fiber optics			1	1 - 2					
PCS120 PEBB A	2UCS000450B601	Power electronic building block	0 - 1	1	1 - 2	2 - 3					
PEBB module extractor - service tool	2UCS390000B001	Module extractor, fits to a fork lift for extracting and reinstalling PEBB modules	1	1	1	1					

Service contracts

Service contracts				
Contract Name/Content	Regular inspections, digital analysis of SureWave operation with condition based service recommendations		24/7 access to factory service hotline for SureWave trained service engineers	Typical contact duration
PCS Bronze	✓			Renewed annually
PCS Bronze + 24/7 factory hotline	1		1	Renewed annually
PCS Extended Warranty	√	4		3 to 5 years = 2 years manufactures
PCS Extended Warranty + 24/7 factory hotline	√	√	1	warranty + up to 3 years extended warranty



Operational resilience plan																
1 x SureWave 1.25 MVA IP42																
Clean environment: 15 to 25oC 59 to77	oF (Commissioning Inspectio	n Inspection	Service	Inspection	Inspection	Service	Inspection	Inspection	Service	Service	Inspection	Service	Inspection	Inspection	Inspection
		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Item	Ordering code															
Power Supply 24 V 40 A	2UCS002580B027										4 pcs					
Buffer 24 Vdc	2UCS002580B021										2 pcs					
Busbar contact grease	2UCS004403B007						1 pcs						1 pcs			
PEBB fan assy	2UCS000451B617						10 pcs						10 pcs			
PEBB air filter (6 pcs)*	2UCS390000B002						2 pcs						2 pcs			
PEBB AC cap assy	2UCS000451B603										10 pcs					
Enclosure air filter cartridge (4 pcs)	2UCS390000B003			2 pcs			2 pcs			2 pcs			2 pcs			
Input and output breakers	Refer to ABB library document 1SDH001000R	0002														
Site hours		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Software upgrade (if available or required)		1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs
Consumables replacement				1 hrs			7 hrs			1 hrs	5 hrs		7 hrs			
Annual inspection & Service log download		3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs
Total		4 hrs	4 hrs	5 hrs	4 hrs	4 hrs	11 hrs	4 hrs	4 hrs	5 hrs	9 hrs	4 hrs	11 hrs	4 hrs	4 hrs	3 hrs
Legend	Description							Supporting	Documents							
	Recommended consumable replacement inter	val for 24/7 operation in an	airconditioned	clean enviro	nment of 15°C	to 25°C, 59°C	to 77°F	2UCD420000	E404	SureWave F	ast Respons	e Kits				
	Consumable replacment region based on appl					•		2UCD420000	E400	SureWave S	SFC Service I	Manual				
*	Air filter for PEBB module control electronics,	can be cleaned or replaced v	with a new part					2UCD000026	-S	PCS Extend	ed Warranty	Digital Mainten	ance Progra	m		
								2UCD000011	-S	PCS Bronze	Digital Main	tenance Program	n			

Fast response kits

Item	Part number	Description	Recommended holding for SureWave SFC installed base								
			250kVA to 750kVA	1.0MVA to 5MVA	2.25MVA to 5MVA	> 5MVA					
SureWave level 1 spares kit	2UCS420000B001	Fuses, PEBB 120 fan, some cables, fiber optics, fastenings	1								
SureWave level 2 spares kit	2UCS420000B002	Level 1 + PSU, buffer, PCBAs, GDM, more fibre optics		1							
SureWave level 3 spares kit	2UCS420000B003	Level 2 + controller, remaining control cables & fiber optics			1	1 - 2					
PCS120 PEBB A	2UCS000450B601	Power electronic building block	0 - 1	1	1 - 2	2 - 3					
PEBB module extractor - service tool	2UCS390000B001	Module extractor, fits to a fork lift for extracting and reinstalling PEBB modules	1	1	1	1					

Service contracts

Sei vice contracts				
Contract Name/Content	Regular inspections, digital analysis of SureWave operation with condition based service recommendations		24/7 access to factory service hotline for SureWave trained service engineers	Typical contact duration
PCS Bronze	~			Renewed annually
PCS Bronze + 24/7 factory hotline	1		✓	Renewed annually
PCS Extended Warranty	1	1		3 to 5 years = 2 years manufactures
PCS Extended Warranty + 24/7 factory hotline	1	~	1	warranty + up to 3 years extended warranty



Operational resilience plan																	
1 x SureWave 1.0 MVA IP42																	
Clean environment: 15 to 25oC 59 to77	7oF	Commissioning	Inspection	Inspection	Service	Inspection	Inspection	Service	Inspection	Inspection	Service	Service	Inspection	Service	Inspection	Inspection	Inspection
			Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Item	Ordering code																
Power Supply 24 V 40 A	2UCS002580B027											4 pcs					
Buffer 24 Vdc	2UCS002580B021											2 pcs					
Busbar contact grease	2UCS004403B007							1 pcs						1 pcs			
PEBB fan assy	2UCS000451B617							8 pcs						8 pcs			
PEBB air filter (6 pcs)*	2UCS390000B002							2 pcs						2 pcs			
PEBB AC cap assy	2UCS000451B603											10 pcs					
Enclosure air filter cartridge (4 pcs)	2UCS390000B003				2 pcs			2 pcs			2 pcs			2 pcs			
Input and output breakers	Refer to ABB library document 1SDH001000R	0002															
Site hours			Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Software upgrade (if available or required)			1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs
Consumables replacement					1 hrs			5 hrs			1 hrs	4 hrs		5 hrs			
Annual inspection & Service log download			3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs
Total			4 hrs	4 hrs	5 hrs	4 hrs	4 hrs	9 hrs	4 hrs	4 hrs	5 hrs	8 hrs	4 hrs	9 hrs	4 hrs	4 hrs	3 hrs
Legend	Description								Supporting	Documents							
	Recommended consumable replacement inte	rval for 24/7 opera	ation in an ai	rconditioned of	clean enviro	nment of 15°C	to 25°C, 59°C	to 77°F	2UCD420000	E404	SureWave F	ast Response	e Kits				
	Consumable replacment region based on app	nsumable replacment region based on application and environmental data analysis						2UCD420000	E400	SureWave S	FC Service N	1anual					
*	Air filter for PEBB module control electronics,	Air filter for PEBB module control electronics, can be cleaned or replaced with a new part						2UCD000026-S PCS Extended Warranty Digital Maintenance Program									
									2UCD000011	-S	PCS Bronze	Digital Main	tenance Program	m			

Fast response kits

Item	Part number	Description	Recommended holding for SureWave SFC installed base								
			250kVA to 750kVA	1.0MVA to 5MVA	2.25MVA to 5MVA	> 5MVA					
SureWave level 1 spares kit	2UCS420000B001	Fuses, PEBB 120 fan, some cables, fiber optics, fastenings	1								
SureWave level 2 spares kit	2UCS420000B002	Level 1 + PSU, buffer, PCBAs, GDM, more fibre optics		1							
SureWave level 3 spares kit	2UCS420000B003	Level 2 + controller, remaining control cables & fiber optics			1	1 - 2					
PCS120 PEBB A	2UCS000450B601	Power electronic building block	0 - 1	1	1 - 2	2 - 3					
PEBB module extractor - service tool	2UCS390000B001	Module extractor, fits to a fork lift for extracting and reinstalling PEBB modules	1	1	1	1					

Service contracts

Service contracts				
Contract Name/Content	Regular inspections, digital analysis of SureWave operation with condition based service recommendations		24/7 access to factory service hotline for SureWave trained service engineers	Typical contact duration
PCS Bronze	✓			Renewed annually
PCS Bronze + 24/7 factory hotline	1		1	Renewed annually
PCS Extended Warranty	√	4		3 to 5 years = 2 years manufactures
PCS Extended Warranty + 24/7 factory hotline	√	√	1	warranty + up to 3 years extended warranty



Operational resilience plan																
1 x SureWave 750 kVA IP42																
Clean environment: 15 to 25oC 59 to7	7oF	Commissioning Inspec	tion Inspection	Service	Inspection	Inspection	Service	Inspection	Inspection	Service	Service	Inspection	Service	Inspection	Inspection	Inspection
		Year	1 Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Item	Ordering code															
Power Supply 24 V 40 A	2UCS002580B027										1 pcs					
Buffer 24 Vdc	2UCS002580B021										1 pcs					
Busbar contact grease	2UCS004403B007						1 pcs						1 pcs			
PEBB fan assy	2UCS000451B617						6 pcs						6 pcs			
PEBB air filter (6 pcs)*	2UCS390000B002						1 pcs						1 pcs			
PEBB AC cap assy	2UCS000451B603										6 pcs					
Enclosure air filter cartridge (4 pcs)	2UCS390000B003			1 pcs			1 pcs			1 pcs			1 pcs			
Site hours		Year		Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Software upgrade (if available or required)		1 hr	s 1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs
Consumables replacement				1 hrs			4 hrs			1 hrs	3 hrs		4 hrs			
Annual inspection & Service log download		2 hr	s 2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs
Total		3 hr	s 3 hrs	4 hrs	3 hrs	3 hrs	7 hrs	3 hrs	3 hrs	4 hrs	6 hrs	3 hrs	7 hrs	3 hrs	3 hrs	2 hrs
Legend	Description							Supporting	Documents							
	Recommended consumable replacement in	terval for 24/7 operation in	an airconditioned	clean enviro	nment of 15°C	to 25°C, 59°C	to 77°F	2UCD420000	E404	SureWave F	ast Respons	e Kits				
	Consumable replacment region based on a	pplication and environmenta	l data analysis					2UCD420000	E400	SureWave S	FC Service N	1anual				
*	Air filter for PEBB module control electronic	cs, can be cleaned or replace	d with a new par	t				2UCD000026	-S	PCS Extende	ed Warranty	Digital Mainten	ance Progra	m		
								2UCD000011	-S	PCS Bronze	Digital Main	enance Program	m			

Fast response kits

Item	Part number	Description		Recommended holding for SureWave SFC installed base						
			250kVA to 750kVA	1.0MVA to 5MVA	2.25MVA to 5MVA	> 5MVA				
SureWave level 1 spares kit	2UCS420000B001	Fuses, PEBB 120 fan, some cables, fiber optics, fastenings	1							
SureWave level 2 spares kit	2UCS420000B002	Level 1 + PSU, buffer, PCBAs, GDM, more fibre optics		1						
SureWave level 3 spares kit	2UCS420000B003	Level 2 + controller, remaining control cables & fiber optics			1	1 - 2				
PCS120 PEBB A	2UCS000450B601	Power electronic building block	0 - 1	1	1 - 2	2 - 3				
PEBB module extractor - service tool	2UCS390000B001	Module extractor, fits to a fork lift for extracting and reinstalling PEBB modules	1	1	1	1				

Service contracts

Sei vice contracts				
Contract Name/Content	Regular inspections, digital analysis of SureWave operation with condition based service recommendations		24/7 access to factory service hotline for SureWave trained service engineers	Typical contact duration
PCS Bronze	~			Renewed annually
PCS Bronze + 24/7 factory hotline	1		✓	Renewed annually
PCS Extended Warranty	1	1		3 to 5 years = 2 years manufactures
PCS Extended Warranty + 24/7 factory hotline	1	~	1	warranty + up to 3 years extended warranty



Operational resilience plan																	
1 x SureWave 500 kVA IP42																	
Clean environment: 15 to 25oC 59 to77	oF	Commissioning I	nspection	Inspection	Service	Inspection	Inspection	Service	Inspection	Inspection	Service	Service	Inspection	Service	Inspection	Inspection	Inspection
			Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Item	Ordering code																
Power Supply 24 V 40 A	2UCS002580B027											1 pcs					
Buffer 24 Vdc	2UCS002580B021											1 pcs					
Busbar contact grease	2UCS004403B007							1 pcs						1 pcs			
PEBB fan assy	2UCS000451B617							4 pcs						4 pcs			
PEBB air filter (6 pcs)*	2UCS390000B002							1 pcs						1 pcs			
PEBB AC cap assy	2UCS000451B603											4 pcs					
Enclosure air filter cartridge (4 pcs)	2UCS390000B003				1 pcs			1 pcs			1 pcs			1 pcs			
Site hours			Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Software upgrade (if available or required)			1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs
Consumables replacement					1 hrs			3 hrs			1 hrs	2 hrs		3 hrs			
Annual inspection & Service log download			2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs
Total			3 hrs	3 hrs	4 hrs	3 hrs	3 hrs	6 hrs	3 hrs	3 hrs	4 hrs	5 hrs	3 hrs	6 hrs	3 hrs	3 hrs	2 hrs
		_															
Legend	Description								Supporting	Documents							
	Recommended consumable replacement interval for 24/7 operation in an airconditioned clean environment of 15°C to 25°C, 59°C to 77°F								2UCD420000	404	SureWave F	ast Response	e Kits				
	Consumable replacment region based on	Consumable replacment region based on application and environmental data analysis							2UCD420000E400 SureWave SFC Service Manual								
*	Air filter for PEBB module control electronics, can be cleaned or replaced with a new part							2UCD000026-S PCS Extended Warranty Digital Maintenance Program									
								2UCD000011-S PCS Bronze Digital Maintenance Program									

Fast response kits

Item	Part number	Description	Recommended holding for SureWave SFC installed base								
			250kVA to 750kVA	1.0MVA to 5MVA	2.25MVA to 5MVA	> 5MVA					
SureWave level 1 spares kit	2UCS420000B001	Fuses, PEBB 120 fan, some cables, fiber optics, fastenings	1								
SureWave level 2 spares kit	2UCS420000B002	Level 1 + PSU, buffer, PCBAs, GDM, more fibre optics		1							
SureWave level 3 spares kit	2UCS420000B003	Level 2 + controller, remaining control cables & fiber optics			1	1 - 2					
PCS120 PEBB A	2UCS000450B601	Power electronic building block	0 - 1	1	1 - 2	2 - 3					
PEBB module extractor - service tool	2UCS390000B001	Module extractor, fits to a fork lift for extracting and reinstalling PEBB modules	1	1	1	1					

Service contracts

Sei vice contracts				
Contract Name/Content	Regular inspections, digital analysis of SureWave operation with condition based service recommendations		24/7 access to factory service hotline for SureWave trained service engineers	Typical contact duration
PCS Bronze	~			Renewed annually
PCS Bronze + 24/7 factory hotline	1		✓	Renewed annually
PCS Extended Warranty	1	1		3 to 5 years = 2 years manufactures
PCS Extended Warranty + 24/7 factory hotline	1	~	1	warranty + up to 3 years extended warranty



Operational resilience plan																	
1 x SureWave 250 kVA IP42																	
Clean environment: 15 to 25oC 59 to77	oF	Commissioning Ins	spection	Inspection	Service	Inspection	Inspection	Service	Inspection	Inspection	Service	Service	Inspection	Service	Inspection	Inspection	Inspectio
		Y	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Item	Ordering code																
Power Supply 24 V 40 A	2UCS002580B027											1 pcs					
Buffer 24 Vdc	2UCS002580B021											1 pcs					
Busbar contact grease	2UCS004403B007							1 pcs						1 pcs			
PEBB fan assy	2UCS000451B617							2 pcs						2 pcs			
PEBB air filter (6 pcs)*	2UCS390000B002							1 pcs						1 pcs			
PEBB AC cap assy	2UCS000451B603											2 pcs					
Enclosure air filter cartridge (4 pcs)	2UCS390000B003				1 pcs			1 pcs			1 pcs			1 pcs			
Site hours		Υ	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Software upgrade (if available or required)			1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs
Consumables replacement					2 hrs			10 hrs			2 hrs	9 hrs		10 hrs			
Annual inspection & Service log download			4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs
Total			5 hrs	5 hrs	7 hrs	5 hrs	5 hrs	15 hrs	5 hrs	5 hrs	7 hrs	14 hrs	5 hrs	15 hrs	5 hrs	5 hrs	4 hrs
Legend	Description								Supporting I	Documents							
		Recommended consumable replacement interval for 24/7 operation in an airconditioned clean environment of 15°C to 25°C, 59°C to 77°F									SureWave F	ast Respons	e Kits				
		Consumable replacment region based on application and environmental data analysis							2UCD420000E400 SureWave SFC Service Manual								
*		Air filter for PEBB module control electronics, can be cleaned or replaced with a new part							2UCD000026-S PCS Extended Warranty Digital Maintenance Program								
								2UCD000011-S PCS Bronze Digital Maintenance Program									

SureWave SFC Lifecycle Management

Fast response kits

Item	Part number	Description	Recommended holding for SureWave SFC installed base							
			250kVA to 750kVA	1.0MVA to 5MVA	2.25MVA to 5MVA	> 5MVA				
SureWave level 1 spares kit	2UCS420000B001	Fuses, PEBB 120 fan, some cables, fiber optics, fastenings	1							
SureWave level 2 spares kit	2UCS420000B002	Level 1 + PSU, buffer, PCBAs, GDM, more fibre optics		1						
SureWave level 3 spares kit	2UCS420000B003	Level 2 + controller, remaining control cables & fiber optics			1	1 - 2				
PCS120 PEBB A	2UCS000450B601	Power electronic building block	0 - 1	1	1 - 2	2 - 3				
PEBB module extractor - service tool	2UCS390000B001	Module extractor, fits to a fork lift for extracting and reinstalling PEBB modules	1	1	1	1				

Service contracts

Service contracts				
	Regular inspections, digital analysis of SureWave operation with condition based service recommendations		24/7 access to factory service hotline for SureWave trained service engineers	Typical contact duration
PCS Bronze	✓			Renewed annually
PCS Bronze + 24/7 factory hotline	4		✓	Renewed annually
PCS Extended Warranty	1	1		3 to 5 years = 2 years manufactures
PCS Extended Warranty + 24/7 factory hotline	✓	√	1	warranty + up to 3 years extended warranty

Consumable replacment region based on application and environmental data analysis

Optional for 1.0MVA to 2.25MVA

Air filter for PEBB120 module control electronics, can be cleaned or replaced with a new part



Operational	resilience plan
4 6 144	2 25 14/4 7524

1 x SureWave 2.25 MVA IP21																	
Clean environment: 15 to 25oC 59 to 77	'oF	Commissioning 1	Inspection	Inspection	Service	Inspection	Inspection	Service	Inspection	Inspection	Service	Service	Inspection	Service	Inspection	Inspection	Inspectio
			Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Item	Ordering code																
Power Supply 24 V 40 A	2UCS002580B027											6 pcs					
Buffer 24 Vdc	2UCS002580B021											3 pcs					
Busbar contact grease	2UCS004403B007							1 pcs						1 pcs			
PEBB fan assy	2UCS000451B617							18 pcs						18 pcs			
PEBB air filter (6 pcs)*	2UCS390000B002				3 pcs			3 pcs			3 pcs			3 pcs			
PEBB AC cap assy	2UCS000451B603											18 pcs					
Input and output breakers	Refer to ABB library document 1SDH001000	R0002															
Site hours			Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Software upgrade (if available or required)			1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs
Consumables replacement					2 hrs			10 hrs			2 hrs	9 hrs		10 hrs			
Annual inspection & Service log download			4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs
Total		_	5 hrs	5 hrs	7 hrs	5 hrs	5 hrs	15 hrs	5 hrs	5 hrs	7 hrs	14 hrs	5 hrs	15 hrs	5 hrs	5 hrs	4 hrs
Legend	Description								Supporting [Documents							
	Recommended consumable replacement interval for 24/7 operation in an airconditioned clean environment of 15°C to 25°C, 59°C to 77°F						to 77°F	°F 2UCD420000E404 SureWave Fast Response Kits									

2UCD420000E400

2UCD000026-S

2UCD000011-S

SureWave SFC Service Manual

PCS Extended Warranty Digital Maintenance Program PCS Bronze Digital Maintenance Program

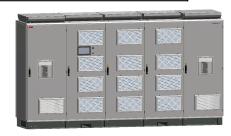
SureWave SFC Lifecycle Management

Fast response kits

Item	Part number	Description	Recommended holding for SureWave SFC installed base							
			250kVA to 750kVA	1.0MVA to 5MVA	2.25MVA to 5MVA	> 5MVA				
SureWave level 1 spares kit	2UCS420000B001	Fuses, PEBB 120 fan, some cables, fiber optics, fastenings	1							
SureWave level 2 spares kit	2UCS420000B002	Level 1 + PSU, buffer, PCBAs, GDM, more fibre optics		1						
SureWave level 3 spares kit	2UCS420000B003	Level 2 + controller, remaining control cables & fiber optics			1	1 - 2				
PCS120 PEBB A	2UCS000450B601	Power electronic building block	0 - 1	1	1 - 2	2 - 3				
PEBB module extractor - service tool	2UCS390000B001	Module extractor, fits to a fork lift for extracting and reinstalling PEBB modules	1	1	1	1				

Service contracts

Service contracts				
Contract Name/Content	Regular inspections, digital analysis of SureWave operation with condition based service recommendations		24/7 access to factory service hotline for SureWave trained service engineers	Typical contact duration
PCS Bronze	✓			Renewed annually
PCS Bronze + 24/7 factory hotline	4		✓	Renewed annually
PCS Extended Warranty	1	✓		3 to 5 years = 2 years manufactures
PCS Extended Warranty + 24/7 factory hotline	1	√	1	warranty + up to 3 years extended warranty



Operational resilience plan

Operational resilience plan																	
1 x SureWave 2.0 MVA IP21																	
Clean environment: 15 to 25oC 59	to77oF	Commissioning	Inspection	Inspection	Service	Inspection	Inspection	Service	Inspection	Inspection	Service	Service	Inspection	Service	Inspection	Inspection	Inspection
			Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Item	Ordering code																
Power Supply 24 V 40 A	2UCS002580B027											6 pcs					
Buffer 24 Vdc	2UCS002580B021											3 pcs					
Busbar contact grease	2UCS004403B007							1 pcs						1 pcs			
PEBB fan assy	2UCS000451B617							16 pcs						16 pcs			
PEBB air filter (6 pcs)*	2UCS390000B002				3 pcs			3 pcs			3 pcs			3 pcs			
PEBB AC cap assy	2UCS000451B603											16 pcs					
Input and output breakers	Refer to ABB library document 1SDH0	01000R0002															
																	Į.
Site hours			Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Software upgrade (if available or requir	ed)		1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs
Consumables replacement					2 hrs			9 hrs			2 hrs	9 hrs		9 hrs			
Annual inspection & Service log downloa	ad		4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs
Total			5 hrs	5 hrs	7 hrs	5 hrs	5 hrs	14 hrs	5 hrs	5 hrs	7 hrs	14 hrs	5 hrs	14 hrs	5 hrs	5 hrs	4 hrs

Legend	Description	Supporting Documents	
	Recommended consumable replacement interval for 24/7 operation in an airconditioned clean environment of 15°C to 25°C, 59°C to 77°F	2UCD420000E404	SureWave Fast Response Kits
	Consumable replacment region based on application and environmental data analysis	2UCD420000E400	SureWave SFC Service Manual
*	Air filter for PEBB120 module control electronics, can be cleaned or replaced with a new part	2UCD000026-S	PCS Extended Warranty Digital Maintenance Program
**	Optional for 1.0MVA to 2.25MVA	2UCD000011-S	PCS Bronze Digital Maintenance Program

Fast response kits

Item	Part number	Description	Recommended holding for SureWave SFC installed base							
			250kVA to 750kVA	1.0MVA to 5MVA	2.25MVA to 5MVA	> 5MVA				
SureWave level 1 spares kit	2UCS420000B001	Fuses, PEBB 120 fan, some cables, fiber optics, fastenings	1							
SureWave level 2 spares kit	2UCS420000B002	Level 1 + PSU, buffer, PCBAs, GDM, more fibre optics		1						
SureWave level 3 spares kit	2UCS420000B003	Level 2 + controller, remaining control cables & fiber optics			1	1 - 2				
PCS120 PEBB A	2UCS000450B601	Power electronic building block	0 - 1	1	1 - 2	2 - 3				
PEBB module extractor - service tool	2UCS390000B001	Module extractor, fits to a fork lift for extracting and reinstalling PEBB modules	1	1	1	1				

Service contracts

Service contracts				
Contract Name/Content	Regular inspections, digital analysis of SureWave operation with condition based service recommendations		24/7 access to factory service hotline for SureWave trained service engineers	Typical contact duration
PCS Bronze	✓			Renewed annually
PCS Bronze + 24/7 factory hotline	4		✓	Renewed annually
PCS Extended Warranty	1	✓		3 to 5 years = 2 years manufactures
PCS Extended Warranty + 24/7 factory hotline	1	√	1	warranty + up to 3 years extended warranty



Operational resilience plan																	
1 x SureWave 1.75 MVA IP21																	
Clean environment: 15 to 25oC 59 to7	7oF	Commissioning In	spection	Inspection	Service	Inspection	Inspection	Service	Inspection	Inspection	Service	Service	Inspection	Service	Inspection	Inspection	Inspection
			Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Item	Ordering code																
Power Supply 24 V 40 A	2UCS002580B027											6 pcs					
Buffer 24 Vdc	2UCS002580B021											3 pcs					
Busbar contact grease	2UCS004403B007							1 pcs						1 pcs			
PEBB fan assy	2UCS000451B617							14 pcs						14 pcs			
PEBB air filter (6 pcs)*	2UCS390000B002				3 pcs			3 pcs			3 pcs			3 pcs			
PEBB AC cap assy	2UCS000451B603											14 pcs					
Input and output breakers	Refer to ABB library document 1SDH001000F	R0002															
Site hours			Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Software upgrade (if available or required)			1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs
Consumables replacement					1 hrs			8 hrs			1 hrs	8 hrs		8 hrs			
Annual inspection & Service log download			4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs
Total			5 hrs	5 hrs	6 hrs	5 hrs	5 hrs	13 hrs	5 hrs	5 hrs	6 hrs	13 hrs	5 hrs	13 hrs	5 hrs	5 hrs	4 hrs
Legend	Description							Supporting D	Documents								
	Recommended consumable replacement interval for 24/7 operation in an airconditioned clean environment of 15°C to 25°C, 59°C to 77°F						2UCD420000E	404	SureWave F	ast Respons	e Kits						
	Consumable replacment region based on app	onsumable replacment region based on application and environmental data analysis							2UCD420000E	400	SureWave S	FC Service N	1anual				
*	Air filter for PEBB120 module control electron	Air filter for PEBB120 module control electronics, can be cleaned or replaced with a new part						2UCD000026-S PCS Extended Warranty Digital Maintenance Program									
**	Optional for 1.0MVA to 2.25MVA								2UCD000011-				tenance Progran				

Fast response kits

Item	Part number	Description	Recommended holding for SureWave SFC installed base							
			250kVA to 750kVA	1.0MVA to 5MVA	2.25MVA to 5MVA	> 5MVA				
SureWave level 1 spares kit	2UCS420000B001	Fuses, PEBB 120 fan, some cables, fiber optics, fastenings	1							
SureWave level 2 spares kit	2UCS420000B002	Level 1 + PSU, buffer, PCBAs, GDM, more fibre optics		1						
SureWave level 3 spares kit	2UCS420000B003	Level 2 + controller, remaining control cables & fiber optics			1	1 - 2				
PCS120 PEBB A	2UCS000450B601	Power electronic building block	0 - 1	1	1 - 2	2 - 3				
PEBB module extractor - service tool	2UCS390000B001	Module extractor, fits to a fork lift for extracting and reinstalling PEBB modules	1	1	1	1				

Service contracts

Sei vice contracts				
Contract Name/Content	Regular inspections, digital analysis of SureWave operation with condition based service recommendations		24/7 access to factory service hotline for SureWave trained service engineers	Typical contact duration
PCS Bronze	~			Renewed annually
PCS Bronze + 24/7 factory hotline	1		✓	Renewed annually
PCS Extended Warranty	1	1		3 to 5 years = 2 years manufactures
PCS Extended Warranty + 24/7 factory hotline	1	1	1	warranty + up to 3 years extended warranty



Operational resilience plan																
1 x SureWave 1.5 MVA IP21																
Clean environment: 15 to 25oC 59 to77	7oF	Commissioning Inspection	n Inspection	Service	Inspection	Inspection	Service	Inspection	Inspection	Service	Service	Inspection	Service	Inspection	Inspection	Inspection
		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Item	Ordering code															
Power Supply 24 V 40 A	2UCS002580B027										4 pcs					
Buffer 24 Vdc	2UCS002580B021										2 pcs					
Busbar contact grease	2UCS004403B007						1 pcs						1 pcs			
PEBB fan assy	2UCS000451B617						12 pcs						12 pcs			
PEBB air filter (6 pcs)*	2UCS390000B002			2 pcs			2 pcs			2 pcs			2 pcs			
PEBB AC cap assy	2UCS000451B603										12 pcs					
Input and output breakers	Refer to ABB library document 1SDH001000	R0002														
Site hours		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Software upgrade (if available or required)		1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs
Consumables replacement		11113	11113	1 hrs	11113	11113	7 hrs	11113	11113	1 hrs	6 hrs	11113	7 hrs	11113	11113	11113
Annual inspection & Service log download		3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs
Total		4 hrs	4 hrs	5 hrs	4 hrs	4 hrs	11 hrs	4 hrs	4 hrs	5 hrs	10 hrs	4 hrs	11 hrs	4 hrs	4 hrs	3 hrs
Total			41113	31113	71113	41113	111113	71113	41113	31113	10 1113	71113	11 1113	41113	71113	5 1113
Legend	Description							Supporting D	ocuments							
	Recommended consumable replacement interval for 24/7 operation in an airconditioned clean environment of 15°C to 25°C, 59°C to 77°F						77°F 2UCD420000E404 SureWave Fast Response Kits									
	Consumable replacment region based on app	Consumable replacment region based on application and environmental data analysis						2UCD420000E	400	SureWave S	FC Service N	1anual				
*	Air filter for PEBB120 module control electro	Air filter for PEBB120 module control electronics, can be cleaned or replaced with a new part						2UCD000026-	D26-S PCS Extended Warranty Digital Maintenance Program							
**	Optional for 1.0MVA to 2.25MVA						2UCD000011-	00011-S PCS Bronze Digital Maintenance Program								

SureWave SFC Lifecycle Management

Fast response kits

Item	Part number	Description	Recommended holding for SureWave SFC installed base							
				1.0MVA to 5MVA	2.25MVA to 5MVA	> 5MVA				
SureWave level 1 spares kit	2UCS420000B001	Fuses, PEBB 120 fan, some cables, fiber optics, fastenings	1							
SureWave level 2 spares kit	2UCS420000B002	Level 1 + PSU, buffer, PCBAs, GDM, more fibre optics		1						
SureWave level 3 spares kit	2UCS420000B003	Level 2 + controller, remaining control cables & fiber optics			1	1 - 2				
PCS120 PEBB A	2UCS000450B601	Power electronic building block	0 - 1	1	1 - 2	2 - 3				
PEBB module extractor - service tool	2UCS390000B001	Module extractor, fits to a fork lift for extracting and reinstalling PEBB modules	1	1	1	1				

Service contracts

Service contracts				
	Regular inspections, digital analysis of SureWave operation with condition based service recommendations		24/7 access to factory service hotline for SureWave trained service engineers	Typical contact duration
PCS Bronze	✓			Renewed annually
PCS Bronze + 24/7 factory hotline	4		✓	Renewed annually
PCS Extended Warranty	1	1		3 to 5 years = 2 years manufactures
PCS Extended Warranty + 24/7 factory hotline	✓	√	1	warranty + up to 3 years extended warranty

Air filter for PEBB120 module control electronics, can be cleaned or replaced with a new part

Optional for 1.0MVA to 2.25MVA



PCS Extended Warranty Digital Maintenance Program

PCS Bronze Digital Maintenance Program

Operational resilience plan																	
1 x SureWave 1.25 MVA IP21																	
Clean environment: 15 to 25oC 59 to77	oF	Commissioning	Inspection	Inspection	Service	Inspection	Inspection	Service	Inspection	Inspection	Service	Service	Inspection	Service	Inspection	Inspection	Inspection
			Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Item	Ordering code																
Power Supply 24 V 40 A	2UCS002580B027											4 pcs					
Buffer 24 Vdc	2UCS002580B021											2 pcs					
Busbar contact grease	2UCS004403B007							1 pcs						1 pcs			
PEBB fan assy	2UCS000451B617							10 pcs						10 pcs			
PEBB air filter (6 pcs)*	2UCS390000B002				2 pcs			2 pcs			2 pcs			2 pcs			
PEBB AC cap assy	2UCS000451B603											10 pcs					
Input and output breakers	Refer to ABB library document 1SDH001000	DR0002															
Site hours			Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Software upgrade (if available or required)			1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs
Consumables replacement					1 hrs			6 hrs			1 hrs	5 hrs		6 hrs			
Annual inspection & Service log download			3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs
Total			4 hrs	4 hrs	5 hrs	4 hrs	4 hrs	10 hrs	4 hrs	4 hrs	5 hrs	9 hrs	4 hrs	10 hrs	4 hrs	4 hrs	3 hrs
Legend	Description	_							Supporting I	Documents							
	Recommended consumable replacement int	erval for 24/7 opera	ition in an ai	rconditioned of	lean enviro	nment of 15°C	to 25°C, 59°C t	:o 77°F	2UCD420000I	E404	SureWave F	ast Response	Kits				
	Consumable replacment region based on ap	plication and enviro	nmental dat	a analysis					2UCD420000	E400	SureWave S	FC Service M	anual				

2UCD000026-S

2UCD000011-S

Optional for 1.0MVA to 2.25MVA

Fast response kits

Item	Part number	Description	Recommended holding for SureWave SFC installed base							
			250kVA to 750kVA	1.0MVA to 5MVA	2.25MVA to 5MVA	> 5MVA				
SureWave level 1 spares kit	2UCS420000B001	Fuses, PEBB 120 fan, some cables, fiber optics, fastenings	1							
SureWave level 2 spares kit	2UCS420000B002	Level 1 + PSU, buffer, PCBAs, GDM, more fibre optics		1						
SureWave level 3 spares kit	2UCS420000B003	Level 2 + controller, remaining control cables & fiber optics			1	1 - 2				
PCS120 PEBB A	2UCS000450B601	Power electronic building block	0 - 1	1	1 - 2	2 - 3				
PEBB module extractor - service tool	2UCS390000B001	Module extractor, fits to a fork lift for extracting and reinstalling PEBB modules	1	1	1	1				

Service contracts

Sei vice contracts				
Contract Name/Content	Regular inspections, digital analysis of SureWave operation with condition based service recommendations		24/7 access to factory service hotline for SureWave trained service engineers	Typical contact duration
PCS Bronze	~			Renewed annually
PCS Bronze + 24/7 factory hotline	1		✓	Renewed annually
PCS Extended Warranty	1	1		3 to 5 years = 2 years manufactures
PCS Extended Warranty + 24/7 factory hotline	1	1	1	warranty + up to 3 years extended warranty



PCS Bronze Digital Maintenance Program

Operational resilience plan																
1 x SureWave 1.0 MVA IP21																
Clean environment: 15 to 25oC 59 to77	'oF	Commissioning Inspection	n Inspection	Service	Inspection	Inspection	Service	Inspection	Inspection	Service	Service	Inspection	Service	Inspection	Inspection	Inspectio
		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Item	Ordering code															
Power Supply 24 V 40 A	2UCS002580B027										4 pcs					
Buffer 24 Vdc	2UCS002580B021										2 pcs					
Busbar contact grease	2UCS004403B007						1 pcs						1 pcs			
PEBB fan assy	2UCS000451B617						8 pcs						8 pcs			
PEBB air filter (6 pcs)*	2UCS390000B002			2 pcs			2 pcs			2 pcs			2 pcs			
PEBB AC cap assy	2UCS000451B603										8 pcs					
Input and output breakers	Refer to ABB library document 1SDH001000F	R0002														
Site hours		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Software upgrade (if available or required)		1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs
Consumables replacement				1 hrs			4 hrs			1 hrs	4 hrs		4 hrs			
Annual inspection & Service log download		3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs
Total		4 hrs	4 hrs	5 hrs	4 hrs	4 hrs	8 hrs	4 hrs	4 hrs	5 hrs	8 hrs	4 hrs	8 hrs	4 hrs	4 hrs	3 hrs
Legend	Description							Supporting I	Documents							
	Recommended consumable replacement inte	Recommended consumable replacement interval for 24/7 operation in an airconditioned clean environment of 15°C to 25°C, 59°C to 77°F									2UCD420000E404 SureWave Fast Response Kits					
	Consumable replacment region based on app	olication and environmental d	ata analysis					2UCD420000	E400	SureWave S	FC Service N	Manual				
*	Air filter for PEBB120 module control electronics, can be cleaned or replaced with a new part								2UCD000026-S PCS Extended Warranty Digital Maintenance Program							

2UCD000011-S

Fast response kits

Item	Part number	Description	Recommended holding for SureWave SFC installed base								
			250kVA to 750kVA	1.0MVA to 5MVA	2.25MVA to 5MVA	> 5MVA					
SureWave level 1 spares kit	2UCS420000B001	Fuses, PEBB 120 fan, some cables, fiber optics, fastenings	1								
SureWave level 2 spares kit	2UCS420000B002	Level 1 + PSU, buffer, PCBAs, GDM, more fibre optics		1							
SureWave level 3 spares kit	2UCS420000B003	Level 2 + controller, remaining control cables & fiber optics			1	1 - 2					
PCS120 PEBB A	2UCS000450B601	Power electronic building block	0 - 1	1	1 - 2	2 - 3					
PEBB module extractor - service tool	2UCS390000B001	Module extractor, fits to a fork lift for extracting and reinstalling PEBB modules	1	1	1	1					

Service contracts

Service contracts				
Contract Name/Content	Regular inspections, digital analysis of SureWave operation with condition based service recommendations		24/7 access to factory service hotline for SureWave trained service engineers	Typical contact duration
PCS Bronze	✓			Renewed annually
PCS Bronze + 24/7 factory hotline	4		✓	Renewed annually
PCS Extended Warranty	1	✓		3 to 5 years = 2 years manufactures
PCS Extended Warranty + 24/7 factory hotline	1	√	1	warranty + up to 3 years extended warranty

Air filter for PEBB120 module control electronics, can be cleaned or replaced with a new part



Operational resilience plan																	
1 x SureWave 750 kVA IP21																	
Clean environment: 15 to 25oC 59 to77	oF	Commissioning	Inspection	Inspection	Service	Inspection	Inspection	Service	Inspection	Inspection	Service	Service	Inspection	Service	Inspection	Inspection	Inspection
			Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Item	Ordering code																
Power Supply 24 V 40 A	2UCS002580B027											2 pcs					
Buffer 24 Vdc	2UCS002580B021											1 pcs					
Busbar contact grease	2UCS004403B007							1 pcs						1 pcs			
PEBB fan assy	2UCS000451B617							6 pcs						6 pcs			
PEBB air filter (6 pcs)*	2UCS390000B002				1 pcs			1 pcs			1 pcs			1 pcs			
PEBB AC cap assy	2UCS000451B603											6 pcs					
Site hours			Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Software upgrade (if available or required)			1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs
Consumables replacement					1 hrs			3 hrs			1 hrs	3 hrs		3 hrs			
Annual inspection & Service log download			2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs
Total			3 hrs	3 hrs	4 hrs	3 hrs	3 hrs	6 hrs	3 hrs	3 hrs	4 hrs	6 hrs	3 hrs	6 hrs	3 hrs	3 hrs	2 hrs
		•															
Legend	Description																
	Recommended consumable replacement	interval for 24/7 opera	ation in an ai	rconditioned of	lean enviro	nment of 15°C	to 25°C, 59°C	to 77°F	Supporting D	ocuments							
	Consumable replacment region based on	Consumable replacment region based on application and environmental data analysis							2UCD420000	E404	SureWave F	ast Response	Kits				
		epidement region based on application and environmental data analysis															

2UCD420000E400

2UCD000026-S

SureWave SFC Service Manual

PCS Extended Warranty Digital Maintenance Program

Fast response kits

Item	Part number	Description	Recommended holding for SureWave SFC installed base								
			250kVA to 750kVA	1.0MVA to 5MVA	2.25MVA to 5MVA	> 5MVA					
SureWave level 1 spares kit	2UCS420000B001	Fuses, PEBB 120 fan, some cables, fiber optics, fastenings	1								
SureWave level 2 spares kit	2UCS420000B002	Level 1 + PSU, buffer, PCBAs, GDM, more fibre optics		1							
SureWave level 3 spares kit	2UCS420000B003	Level 2 + controller, remaining control cables & fiber optics			1	1 - 2					
PCS120 PEBB A	2UCS000450B601	Power electronic building block	0 - 1	1	1 - 2	2 - 3					
PEBB module extractor - service tool	2UCS390000B001	Module extractor, fits to a fork lift for extracting and reinstalling PEBB modules	1	1	1	1					

Service contracts

Service contracts				
Contract Name/Content	Regular inspections, digital analysis of SureWave operation with condition based service recommendations		24/7 access to factory service hotline for SureWave trained service engineers	Typical contact duration
PCS Bronze	✓			Renewed annually
PCS Bronze + 24/7 factory hotline	4		✓	Renewed annually
PCS Extended Warranty	1	✓		3 to 5 years = 2 years manufactures
PCS Extended Warranty + 24/7 factory hotline	1	√	1	warranty + up to 3 years extended warranty

Air filter for PEBB120 module control electronics, can be cleaned or replaced with a new part



F	Commissioning Ins	pection	Inspection	Service	Inspection	Inspection	Service	Inspection	Inspection	Service	Service	Inspection	Service	Inspection	Inspection	Inspection
	Y	ear 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Ordering code																
2UCS002580B027											2 pcs					
2UCS002580B021											1 pcs					
2UCS004403B007							1 pcs						1 pcs			
2UCS000451B617							4 pcs						4 pcs			
2UCS390000B002				1 pcs			1 pcs			1 pcs			1 pcs			
2UCS000451B603											4 pcs					
	Y	ear 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
	1	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs
				hrs			2 hrs			hrs	2 hrs		2 hrs			
	2	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs
	3	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	5 hrs	3 hrs	3 hrs	3 hrs	5 hrs	3 hrs	5 hrs	3 hrs	3 hrs	2 hrs
Description																
Recommended consumable replacement int	erval for 24/7 operation	in an air	rconditioned c	lean enviro	nment of 15°C	to 25°C, 59°C	:o 77°F	Supporting Documents								
Consumable replacment region based on ap	onsumable replacment region based on application and environmental data analysis							2UCD420000E	404	SureWave Fa	ast Response	Kits				
	Ordering code 2UCS002580B027 2UCS002580B021 2UCS004403B007 2UCS000451B617 2UCS39000B002 2UCS000451B603 Description Recommended consumable replacement into	Profering code 2UCS002580B027 2UCS002580B021 2UCS004403B007 2UCS000451B617 2UCS000451B603 Poscription Recommended consumable replacement interval for 24/7 operation	Vear 1 Ordering code 2UCS0025808027 2UCS0025808021 2UCS0044038007 2UCS3900008002 2UCS0004518603 Year 1 1 hrs 2 hrs 3 hrs Description Recommended consumable replacement interval for 24/7 operation in an air	Ordering code Year 1 Year 2 2UCS0025808027	Year 1 Year 2 Year 3 Ordering code 2UCS0025808027 2UCS0025808021 ***********************************	Year 1 Year 2 Year 3 Year 4 Ordering code 2UCS002580B027 2UCS002580B021 ***********************************	Year 1 Year 2 Year 3 Year 4 Year 5 Ordering code 2UCS00025808027	Vear 1 Year 2 Year 3 Year 4 Year 5 Year 6 Ordering code UCS00025808027 2UCS0025808021 UCS0044038007 UCS0004518617 UCS0004518617 UCS0004518603 UCS0004518603 Vear 1 Year 2 Year 3 Year 4 Year 5 Year 6 1 hrs 2 hrs 5 hrs	Year 1 Year 2 Year 3 Year 4 Year 5 Year 7 Ordering code 2UCS0025808027 ***********************************	Ordering code Year 1 Year 2 Year 3 Year 4 Year 5 Year 6 Year 7 Year 8 2UCS0025808027	Ordering code Vear 1 Year 2 Year 3 Year 4 Year 5 Year 6 Year 7 Year 8 Year 9 DCG0025808027 UCS0025808021 Vear 5 1 pcs Vear 7 Year 8 Year 9 Year 5 Year 9 Vear 7 Year 8 Year 9 Year 9 <t< td=""><td>Ordering code Vear 5 Year 6 Year 7 Year 8 Year 9 Year 1 2UCS0025808027 SUCS0025808021 SUCS0044038007 SUCS0044038007 SUCS0044038007 SUCS0044038007 SUCS0044038007 SUCS000451B617 SUCS004508621 SUCS000451B617 SUCS000451B617 SUCS000451B603 SUCS0</td><td>Ordering code Ordering code Sear 1 Year 2 Year 3 Year 4 Year 5 Year 6 Year 7 Year 8 Year 9 Year 10 Year 11 December 1 2UCS0002580B027 3 3 1 <td< td=""><td>Ordering code Vear 0 Vear 1 Year 2 Year 3 Year 4 Year 5 Year 6 Year 7 Year 8 Year 9 Year 10 Year 11 Year 12 Code 2UCS0025808027 • ************************************</td><td>Ordering code Ordering code Vear 0 Year 1 Year 2 Year 3 Year 4 Year 5 Year 6 Year 7 Year 8 Year 9 Year 10 Year 11 Year 12 Year 12 Year 13 Year 12 Year 13 Year 12 Year 12 Year 12 Year 12 Year 13 Year 12 Year 12 Year 12 Year 12 Year 12 Year 12 Year 13 Year 14 Year 15 Year 14 Year 15 Year 15 Year 14 Year 15 Year 15 Year 15 Year 14 Year 15 Year 15 Year 16 Year 18 Year 19 Year 11 Year 12 Year 13 Year 14 Year 15 Year 15 Year 19 Year 18 Year 19 Year 11 Year 11 Year 12</td><td>Ordering code Ordering code Vear 1 Year 2 Year 3 Year 4 Year 5 Year 6 Year 7 Year 8 Year 9 Year 10 Year 11 Year 12 Year 13 Year 14 CUSS0025808027 Image: Second Seco</td></td<></td></t<>	Ordering code Vear 5 Year 6 Year 7 Year 8 Year 9 Year 1 2UCS0025808027 SUCS0025808021 SUCS0044038007 SUCS0044038007 SUCS0044038007 SUCS0044038007 SUCS0044038007 SUCS000451B617 SUCS004508621 SUCS000451B617 SUCS000451B617 SUCS000451B603 SUCS0	Ordering code Ordering code Sear 1 Year 2 Year 3 Year 4 Year 5 Year 6 Year 7 Year 8 Year 9 Year 10 Year 11 December 1 2UCS0002580B027 3 3 1 <td< td=""><td>Ordering code Vear 0 Vear 1 Year 2 Year 3 Year 4 Year 5 Year 6 Year 7 Year 8 Year 9 Year 10 Year 11 Year 12 Code 2UCS0025808027 • ************************************</td><td>Ordering code Ordering code Vear 0 Year 1 Year 2 Year 3 Year 4 Year 5 Year 6 Year 7 Year 8 Year 9 Year 10 Year 11 Year 12 Year 12 Year 13 Year 12 Year 13 Year 12 Year 12 Year 12 Year 12 Year 13 Year 12 Year 12 Year 12 Year 12 Year 12 Year 12 Year 13 Year 14 Year 15 Year 14 Year 15 Year 15 Year 14 Year 15 Year 15 Year 15 Year 14 Year 15 Year 15 Year 16 Year 18 Year 19 Year 11 Year 12 Year 13 Year 14 Year 15 Year 15 Year 19 Year 18 Year 19 Year 11 Year 11 Year 12</td><td>Ordering code Ordering code Vear 1 Year 2 Year 3 Year 4 Year 5 Year 6 Year 7 Year 8 Year 9 Year 10 Year 11 Year 12 Year 13 Year 14 CUSS0025808027 Image: Second Seco</td></td<>	Ordering code Vear 0 Vear 1 Year 2 Year 3 Year 4 Year 5 Year 6 Year 7 Year 8 Year 9 Year 10 Year 11 Year 12 Code 2UCS0025808027 • ************************************	Ordering code Ordering code Vear 0 Year 1 Year 2 Year 3 Year 4 Year 5 Year 6 Year 7 Year 8 Year 9 Year 10 Year 11 Year 12 Year 12 Year 13 Year 12 Year 13 Year 12 Year 12 Year 12 Year 12 Year 13 Year 12 Year 12 Year 12 Year 12 Year 12 Year 12 Year 13 Year 14 Year 15 Year 14 Year 15 Year 15 Year 14 Year 15 Year 15 Year 15 Year 14 Year 15 Year 15 Year 16 Year 18 Year 19 Year 11 Year 12 Year 13 Year 14 Year 15 Year 15 Year 19 Year 18 Year 19 Year 11 Year 11 Year 12	Ordering code Ordering code Vear 1 Year 2 Year 3 Year 4 Year 5 Year 6 Year 7 Year 8 Year 9 Year 10 Year 11 Year 12 Year 13 Year 14 CUSS0025808027 Image: Second Seco

2UCD420000E400

2UCD000026-S

SureWave SFC Service Manual

PCS Extended Warranty Digital Maintenance Program

Fast response kits

r abt response kits										
Item	Part number	Description	Recommended holding for SureWave SFC installed base							
			250kVA to 750kVA	1.0MVA to 5MVA	2.25MVA to 5MVA	> 5MVA				
SureWave level 1 spares kit	2UCS420000B001	Fuses, PEBB 120 fan, some cables, fiber optics, fastenings	1							
SureWave level 2 spares kit	2UCS420000B002	Level 1 + PSU, buffer, PCBAs, GDM, more fibre optics		1						
SureWave level 3 spares kit	2UCS420000B003	Level 2 + controller, remaining control cables & fiber optics			1	1 - 2				
PCS120 PEBB A	2UCS000450B601	Power electronic building block	0 - 1	1	1 - 2	2 - 3				
PEBB module extractor - service tool	2UCS390000B001	Module extractor, fits to a fork lift for extracting and reinstalling PEBB modules	1	1	1	1				

Service contracts

Service contracts				
Contract Name/Content	Regular inspections, digital analysis of SureWave operation with condition based service recommendations		24/7 access to factory service hotline for SureWave trained service engineers	Typical contact duration
PCS Bronze	✓			Renewed annually
PCS Bronze + 24/7 factory hotline	4		✓	Renewed annually
PCS Extended Warranty	1	✓		3 to 5 years = 2 years manufactures
PCS Extended Warranty + 24/7 factory hotline	1	√	1	warranty + up to 3 years extended warranty

Recommended consumable replacement interval for 24/7 operation in an airconditioned clean environment of 15°C to 25°C, 59°C to 77°F

Consumable replacment region based on application and environmental data analysis

Air filter for PEBB120 module control electronics, can be cleaned or replaced with a new part



Operational resilience plan

1 x SureWave 250 kVA IP21																	
Clean environment: 15 to 25oC 59 t	:o77oF	Commissioning I	nspection	Inspection	Service	Inspection	Inspection	Service	Inspection	Inspection	Service	Service	Inspection	Service	Inspection	Inspection	Inspection
			Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Item	Ordering code																
Power Supply 24 V 40 A	2UCS002580B027											2 pcs					
Buffer 24 Vdc	2UCS002580B021											1 pcs					
Busbar contact grease	2UCS004403B007							1 pcs						1 pcs			
PEBB fan assy	2UCS000451B617							2 pcs						2 pcs			
PEBB air filter (6 pcs)*	2UCS390000B002				1 pcs			1 pcs			1 pcs			1 pcs			
PEBB AC cap assy	2UCS000451B603			_								2 pcs					
Site hours			Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Software upgrade (if available or required	i)		1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs	1 hrs
Consumables replacement					hrs			1 hrs			hrs	2 hrs		1 hrs			
Annual inspection & Service log download	l		2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs
Total		_	3 hrs	3 hrs	3 hrs	3 hrs	3 hrs	4 hrs	3 hrs	3 hrs	3 hrs	5 hrs	3 hrs	4 hrs	3 hrs	3 hrs	2 hrs
Legend	Description																

Supporting Documents

SureWave Fast Response Kits

SureWave SFC Service Manual

PCS Extended Warranty Digital Maintenance Program

2UCD420000E404

2UCD420000E400

2UCD000026-S