

SC 700VA-3KVA ON LINE UPS RACKMOUNT / TOWER

DATASHEET

Overview

Falcon's SC On-line UPS delivers clean, reliable power with intuitive controls, flexible rack/tower design, and smart communications ensuring seamless protection and performance for critical systems and demanding environments.



Key Advantages

- **Reliable, on-line UPS:** When deciding on a UPS solution, be aware of the UPS type. The SC is an on-line UPS, meaning its inverter is always "on" to provide new, clean AC power.
- **User-friendly LCD display:** The SC UPS has an easy-to-use display for quick access to UPS status, battery and load levels – and more.
- **Advanced communications:** The supplied software supports unattended shutdown and UPS management. An optional SNMP/HTTP agent board is available.
- **Rack/Tower configuration:** Simply rotate the LCD display on a rackmount model to use as a tower UPS.
- **User-programmable frequency converter:** The SC UPS is easily programmable as a 50 or 60 Hz frequency converter.
- **Quality Engineering:** Falcon Electric is a recognized authority in developing reliable, quality industrial UPS solutions. Our technical expertise ensures you find the right solution the first time.

SC 700VA-3KVA ON LINE UPS RACKMOUNT / TOWER

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Model Number	SG700RM-1SC	SG1KRM-1SC	SG1.5KRM-1SC	SG2KRM-1SC	SG3KRM-1SC
Nominal VA	700	1000	1500	2000	3000
Electrical Input					
Nominal AC Voltage	100, 110, 115, 120Vac				
AC Voltage Range	90-150Vac				
Frequency	50/60 Hz \pm 12% (Auto Tracking)				
Generator Input	Supported				
Power Factor Correction	0.99 at full linear load				
Surge Suppression	EN-61000-4-5				
Efficiency (Typ.)	>90%				
Electrical Output					
Watts @ Nominal Output Voltage	630	900	1350	1800	2700
AC Voltage (User Programmable)	100, 110, 115, 120Vac (sinewave)				
Nominal Frequency	50/60 Hz (Auto Tracking)				
Frequency (Synchronized)	3 Hz or 1 Hz (user programmable)				
Frequency at Battery Mode	50/60 Hz \pm 0.2%				
Fixed Frequency (Programmable)	Fixed output frequency converter option (50 or 60 Hz). Output derates to 75% of maximum capacity				
Voltage Regulation	Utility Mode: \pm 1%; Battery Mode: \pm 2%				
Step Load Change	\pm 5% for 10% to 90% load variation, recovery in 60ms				
Harmonic Distortion	< 3% at full linear load, < 6% at full non-linear load				
Overload	< 105% continuous; > 105-120% for 30 seconds and transfer to bypass; > 150% immediate transfer to bypass				
Crest Ratio	3:1				
Protection	Short Circuit				
Battery – For extended battery runtimes, contact factory					
DC Bus Voltage	24 Vdc	36 Vdc	48 Vdc	72 Vdc	
Battery Type	5-Year Rated, Maintenance-free, Sealed VRLA Batteries, 12Vdc, 9AH				
Battery Runtimes -Full/Half Load in Minutes	8 / 18				3 / 9
Recharge Time	4 Hours to 90% capacity				
Transfer Time					
Line Fails/Recovers	Zero				
UPS to Bypass or Reverse	< 4ms				
After Overload	Auto Transfer to Bypass				
Electrical Connections					
Input (6-foot line cord)	5-15P		5-20P	L5-30P	
Outlets	(6) 5-15R		(6) 5-20R	(6) 5-20R & (1) L5-30R	
Environmental					
Temperature	Operational	0°C to 40°C (32°F to 104°F)			
	Storage	-10°C to 50°C (14°F to 122°F)			
Humidity	10% to 90% Non-condensing				
Altitude	3300 Feet (1000 meters) without derating				
Cooling	Low Velocity Forced Air Fans				
Audible Noise @ 1 Meter	<55dBA				
Controls & Indicators					
LCD Display	Normal, Battery, Bypass, Self-Test, Battery Fault, Site Wiring Fault, UPS Fault, Overload, and Load/Battery Level				
Audible Alarms	DC Mode, Low Battery, Overload, Fault Alarm				
Remote Emergency Power Off	Meets NFPA 70, NEC 645-11 (REPO connections located on the UPS rear panel)				
Communications (standard)	USB Port, RS-232, EPO, (UPS Bundled UPSilon Software)				
Communications (options)	SNMP/HTTP Agent & Peripherals; Dry Contact Closure Card				
Mechanical					
UPS Dimensions	inches (mm)	(2U) 3.5 x 17.3 x 16 (88.9 x 439.4 x 406.4)		(2U) 3.5 x 17.3 x 18.7 (88.9 x 439.4 x 475)	(2U) 3.5 x 17.3 x 23.7 (88.9 x 439.4 x 602)
Weight	lbs. (kg)	27.1 (12.3)	34.8 (15.8)	44.1 (20)	61 (28)
Agency Approvals	UL 1778, FCC Class A				

SC 700VA-3KVA ON LINE UPS RACKMOUNT / TOWER

DATASHEET

Model Number	SG700-1SC	SG1K-1SC	SG1.5K-1SC	SG2K-1SC	SG3K-1SC
Nominal VA	700	1000	1500	2000	3000
Electrical Input					
Nominal AC Voltage	100, 110, 115, 120Vac				
AC Voltage Range	90-150Vac				
Frequency	50/60 Hz \pm 12% (Auto Tracking)				
Generator Input	Supported				
Power Factor Correction	0.99 at full linear load				
Surge Suppression	EN-61000-4-5				
Efficiency (Typ.)	>90%				
Electrical Output					
Watts @ Nominal Output Voltage	630	900	1350	1800	2700
AC Voltage (User Programmable)	100, 110, 115, 120Vac (sinewave)				
Nominal Frequency	50/60 Hz (Auto Tracking)				
Frequency (Synchronized)	3 Hz or 1 Hz (user programmable)				
Frequency at Battery Mode	50/60 Hz \pm 0.2%				
Fixed Frequency (Programmable)	Fixed output frequency converter option (50 or 60 Hz). Output derates to 75% of maximum capacity				
Voltage Regulation	Utility Mode: \pm 1%; Battery Mode: \pm 2%				
Step Load Change	\pm 5% for 10% to 90% load variation, recovery in 60ms				
Harmonic Distortion	< 3% at full linear load, < 6% at full non-linear load				
Overload	< 105% continuous; > 105-120% for 30 seconds and transfer to bypass; > 150% immediate transfer to bypass				
Crest Ratio	3:1				
Protection	Short Circuit				
Battery – For extended battery runtimes, contact factory					
DC Bus Voltage	24 Vdc	36 Vdc	48 Vdc	72 Vdc	
Battery Type	5-Year Rated, Maintenance-free, Sealed VRLA Batteries, 12Vdc, 9AH				
Battery Runtimes -Full/Half Load in Minutes	8 / 18	3 / 9			
Recharge Time	4 Hours to 90% capacity				
Transfer Time					
Line Fails/Recovers	Zero				
UPS to Bypass or Reverse	<4ms				
After Overload	Auto Transfer to Bypass				
Electrical Connections					
Input (6-foot line cord)	5-15P		5-20P	L5-30P	
Outlets	(6) 5-15R		(8) 5-20R	(8) 5-20R & (1) L5-30R	
Environmental					
Temperature	Operational	0°C to 40°C (32°F to 104°F)			
	Storage	-10°C to 50°C (14°F to 122°F)			
Humidity	10% to 90% Non-condensing				
Altitude	3300 Feet (1000 meters) without derating				
Cooling	Low Velocity Forced Air Fans				
Audible Noise @ 1 Meter	<55dBA				
Controls & Indicators					
LCD Display	Normal, Battery, Bypass, Self-Test, Battery Fault, Site Wiring Fault, UPS Fault, Overload, and Load/Battery Level				
Audible Alarms	DC Mode, Low Battery, Overload, Fault Alarm				
Remote Emergency Power Off	Meets NFPA 70, NEC 645-11 (REPO connections located on the UPS rear panel)				
Communications (standard)	USB Port, RS-232, EPO, (UPS Bundled UPSilon Software)				
Communications (options)	SNMP/HTTP Agent & Peripherals; Dry Contact Closure Card				
Mechanical					
UPS Dimensions	inches (mm)	10.2 x 6.1 x 15.9 (259 x 155 x 404)		11.4 x 6.8 x 17.4 (289.5 x 172.7 x 442)	12.6 x 7.6 x 21.8 (320 x 193 x 553.7)
Weight	lbs. (kg)	27.2 (12.3)		33.1 (15)	47.4 (21.5)
Agency Approvals	UL 1778, FCC Class A				

SC 700VA-3KVA ON LINE UPS RACKMOUNT / TOWER

DATASHEET

Model Number	SG1KRM-2SC	SG2KRM-2SC	SG3KRM-2SC
Nominal VA	1000	2000	3000
Electrical Input			
Nominal AC Voltage	208, 220, 230, 240Vac		
AC Voltage Range	180-300Vac		
Frequency	50/60 Hz \pm 12% (Auto Tracking)		
Generator Input	Supported		
Power Factor Correction	0.99 at full linear load		
Surge Suppression	EN-61000-4-5		
Efficiency (Typ.)	>90%		
Electrical Output			
Watts @ Nominal Output Voltage	900	1800	2700
AC Voltage (User Programmable)	208, 220, 230 or 240Vac (sinewave)		
Nominal Frequency	50/60 Hz (Auto Tracking)		
Frequency (Synchronized)	3 Hz or 1 Hz (user programmable)		
Frequency at Battery Mode	50/60 Hz \pm 0.2%		
Fixed Frequency (Programmable)	Fixed output frequency converter option (50 or 60 Hz), Output derates to 75% of maximum capacity		
Voltage Regulation	Utility Mode: \pm 1%; Battery Mode: \pm 2%		
Step Load Change	\pm 5% for 10% to 90% load variation, recovery in 60ms		
Harmonic Distortion	< 3% at full linear load, < 6% at full non-linear load		
Overload	< 105% continuous; > 105-120% for 30 seconds and transfer to bypass; > 150% immediate transfer to bypass		
Crest Ratio	3:1		
Protection	Short Circuit		
Battery – For extended battery runtimes, contact factory			
DC Bus Voltage	36 Vdc	72 Vdc	
Battery Type	5-Year Rated, Maintenance-free, Sealed VRLA Batteries, 12Vdc, 9AH		
Battery Runtimes -Full/Half Load in Minutes	3 / 9		
Recharge Time	4 Hours to 90% capacity		
Transfer Time			
Line Fails/Recovers	Zero		
UPS to Bypass or Reverse	<4ms		
After Overload	Auto Transfer to Bypass		
Electrical Connections			
Input (6-foot line cord)	Schuko		
Outlets	(3) IEC320 C13	(6) IEC320 C13	(6) IEC320 C13 & (1) C19
Environmental			
Temperature	Operational Storage	0°C to 40°C (32°F to 104°F) -10°C to 50°C (14°F to 122°F)	
Humidity		10% to 90% Non-condensing	
Altitude		3300 Feet (1000 meters) without derating	
Cooling		Low Velocity Forced Air Fans	
Audible Noise @ 1 Meter		<55dBA	
Controls & Indicators			
LCD Display	Normal, Battery, Bypass, Self-Test, Battery Fault, Site Wiring Fault, UPS Fault, Overload, and Load/Battery Level		
Audible Alarms	DC Mode, Low Battery, Overload, Fault Alarm		
Remote Emergency Power Off	Meets NFPA 70, NEC 645-11 (REPO connections located on the UPS rear panel)		
Communications (standard)	USB Port, RS-232, EPO, (UPS Bundled UPSilon Software)		
Communications (options)	SNMP/HTTP Agent & Peripherals; Dry Contact Closure Card		
Mechanical			
UPS Dimensions	inches (mm)	(2U) 3.5 x 17.3 x 16 (88.9 x 439.4 x 406.4)	(2U) 3.5 x 17.3 x 23.7 (88.9 x 439.4 x 602)
Weight	lbs. (kg)	29.3 (13.3)	50.8 (23) / 56.6 (25.7)
Agency Approvals	CE		

SC 700VA-3KVA ON LINE UPS RACKMOUNT / TOWER

DATASHEET

Model Number	SG1K-2SC	SG2K-2SC	SG3K-2SC
Nominal VA	1000	2000	3000
Electrical Input			
Nominal AC Voltage	208, 220, 230, 240Vac		
AC Voltage Range	180-300Vac		
Frequency	50/60 Hz \pm 12% (Auto Tracking)		
Generator Input	Supported		
Power Factor Correction	0.99 at full linear load		
Surge Suppression	EN-61000-4-5		
Efficiency (Typ.)	>90%		
Electrical Output			
Watts @ Nominal Output Voltage	900	1800	2700
AC Voltage (User Programmable)	208, 220, 230 or 240Vac (sinewave)		
Nominal Frequency	50/60 Hz (Auto Tracking)		
Frequency (Synchronized)	3 Hz or 1 Hz (user programmable)		
Frequency at Battery Mode	50/60 Hz \pm 0.2%		
Fixed Frequency (Programmable)	Fixed output frequency converter option (50 or 60 Hz), Output derates to 75% of maximum capacity		
Voltage Regulation	Utility Mode: \pm 1%; Battery Mode: \pm 2%		
Step Load Change	\pm 5% for 10% to 90% load variation, recovery in 60ms		
Harmonic Distortion	< 3% at full linear load, < 6% at full non-linear load		
Overload	< 105% continuous; > 105-120% for 30 seconds and transfer to bypass; > 150% immediate transfer to bypass		
Crest Ratio	3:1		
Protection	Short Circuit		
Battery – For extended battery runtimes, contact factory			
DC Bus Voltage	36 Vdc	72 Vdc	
Battery Type	5-Year Rated, Maintenance-free, Sealed VRLA Batteries, 12Vdc, 9AH		
Battery Runtimes -Full/Half Load in Minutes	3 / 9		
Recharge Time	4 Hours to 90% capacity		
Transfer Time			
Line Fails/Recovers	Zero		
UPS to Bypass or Reverse	<4ms		
After Overload	Auto Transfer to Bypass		
Electrical Connections			
Input (6-foot line cord)	Schuko		
Outlets	(3) IEC320 C13	(6) IEC320 C13	(6) IEC320 C13 & (1) C19
Environmental			
Temperature	Operational	0°C to 40°C (32°F to 104°F)	
	Storage	-10°C to 50°C (14°F to 122°F)	
Humidity	10% to 90% Non-condensing		
Altitude	3300 Feet (1000 meters) without derating		
Cooling	Low Velocity Forced Air Fans		
Audible Noise @ 1 Meter	<55dBA		
Controls & Indicators			
LCD Display	Normal, Battery, Bypass, Self-Test, Battery Fault, Site Wiring Fault, UPS Fault, Overload, and Load/Battery Level		
Audible Alarms	DC Mode, Low Battery, Overload, Fault Alarm		
Remote Emergency Power Off	Meets NFPA 70, NEC 645-11 (REPO connections located on the UPS rear panel)		
Communications (standard)	USB Port, RS-232, EPO, (UPS Bundled UPSilon Software)		
Communications (options)	SNMP/HTTP Agent & Peripherals; Dry Contact Closure Card		
Mechanical			
UPS Dimensions	inches (mm)	8.3 x 6.1 x 15.1 (210.8 x 154.9 x 383.5)	9.8 x 7.6 x 18.5 (248.9 x 193 x 469.9)
H x W x D			12.6 x 7.6 x 17.8 (320 x 193 x 452.1)
Weight	lbs. (kg)	27.6 (12.5)	52.9 (24) 65.7 (29.8)
Agency Approvals	CE		