

SSG Industrial Wide-temperature UPS

1.5kVA to 3kVA, 120/230Vac Tower



SSG Industrial UPS Advantages:

• -20°C to 55°C temperature range The SSG UPS is agency-certified (UL, cUL, CE) to operate reliably in demanding environments.

• Long-life UPS: true on-line, industrial

Tested and designed with robust components and materials, the SSG assures reliable operation and a long service life in stressful environments. It is a true on-line industrial UPS.

12-year rated batteries cut service costs

The long-life batteries cut frequent battery replacements and maintenance costs. They have a 12-year life at 25°C and **4 years** at 50°C.

Extended battery banks

The battery banks are easily expandable to provide minutes to hours of extra battery runtime.

• Available options / Advanced communications

NEMA 3R-rated enclosures, environmental protection, remote UPS management, environment sensors, relay cards – and much more.

Falcon – recognized for quality and reliability

Falcon Electric is a recognized authority in industrial UPS solutions. Our technical expertise assures you find the right solution – the first time.

SSG Industrial Wide-temp UPS

Tower 1.5kVA to 3kVA

Tower Model Number	SSG1.5K-1T SSG1.5K-2T	SSG2.2K-1T SSG2.2K-2T	SSG3K-1T SSG3K-2T		
Nominal VA	1500	2200	3000		
Electrical Input					
Nominal AC Voltage	-1 Mc	odels: 120Vac, -2 Models: 208, 220, 230, 24	40Vac		
AC Voltage Range	-1	Models: 80-138Vac, -2 Models: 160-276V	ac		
Frequency		50/60 Hz ± 5% (Auto Tracking)			
Power Factor Correction		>0.97 (at full load)			
Surge Suppression		IEEE/ANSI C62.41			
Efficiency (Typ.)		88%			
Electrical Output	•				
Watts	1050	1540	2100		
AC Voltage (User Programmable)	-1 Models: 100, 110, 115 or 120Vac (sine wave) -2 Models: 208, 220, 230 or 240Vac (sine wave)				
Frequency	50/60 Hz (Auto Tracking)				
Frequency Stability	± 0.3% (Battery Mode), ± 5% Synchronized to the input frequency in utility mode				
Voltage Regulation	± 2%				
Step Load Change	± 7% for 100% load variation, recovery in 5ms		ns		
Harmonic Distortion	< 3% Linear Load, < 5% Non-Linear Load				
Overload	110% for	40 seconds, 125% for 18 seconds, 150% i			
Crest Ratio		3:1			
Battery		0.1			
DC Bus Voltage (nominal)	48Vdc	061	Vdc		
Battery Pack Type		ot-Swappable (Batteries are replaceable th			
	· · · · ·		<u> </u>		
Battery Type	12-Year Rated	d, Maintenance-Free, Sealed VRLA Batterie			
Battery Runtimes Full/Half Load in Minutes	6 / 18	10 / 27	6 / 18.9		
Recharge Time		8 Hours to 90%			
Transfer Time	•				
Line Fails/Recovers		Zero			
UPS to Bypass or Reverse		< 4ms			
After Overload	Auto Transfer to UPS				
Electrical Connections	L				
Input -1 -2	6' Cord with 5-15P Plug 6' Cord with Schuko Plug	6' Cord with 5-20P Plug 6' Cord with Schuko Plug	6' Cord with L5-30P Plug 6' Cord with Schuko Plug		
Output -1 -2	(8) 5-15R (4) IEC320 C13 Outlets	(4) 5-15R & (1) Duplex 5-20R (4) IEC320 C13 / (1) IEC320 C19 Outlets	(4) 5-15R & (1) 5-20R & (1) L5-30R (4) IEC320 C13 / (1) IEC320 C19 Outlets		
	(4) 120320 013 Oddiets		(4) 120320 0137 (1) 120320 013 Outlets		
Environmental					
Temperature Operational Storage		en operated in temperatures above 25°C, the ries stored at 50°C will require monthly recha			
Humidity		10% to 95% Non – Condensing			
Altitude		10,000 Feet (3,000 meters) without derating	q		
Cooling		Low Velocity Forced Air Fan	<u> </u>		
Heat Dissipation BTU/Hour	535	784	1071		
Audible Noise (@ 1 Meter)		< 50dBA			
Controls & Indicators					
LCD Display	MIMIC Graphical Display Insut/Out-	out Voltage, Frequency, Load, Alarm, Progr	ammable settings & LIDS state isons		
Audible Alarms					
	-	Jnder Voltage, Over/Under Frequency, High			
Load Segment Control		nmable and/or continuous load segment(s)	· · · · · · · · · · · · · · · · · · ·		
Remote Emergency Power Off (or)	(Standard) Meets NFPA 70, NEC 645-11 (REPO connections located on the UPS rear panel)				
Remote Output Receptacle Control	(Optional) UPS Load Segment Controlled Output Receptacles can be turned off and on using a remote isolated switch contact.				
Communications	USB Port. RS-232C Serial Po	rt, Optional SNMP/HTTP Agent Board (UF	PS Bundled UPSilon Software)		
Mechanical		5			
UPS Dimensions H x W x D inches (mm)	11.1 x 7.6 x 18 14 x 10 x 19.2 (281.9 x 193 x 457.2) (355.6 x 254 x 488)				
Weight Ib. (kg)	UPS & Internal VRLA Batts - 55.2 (25)	UPS & Internal VRLA Batts - 92.6 (42)	UPS & Internal VRLA Batts - 92.6 (42)		
Agency Approvals	-1 Models: UI	L 1778, cUL, FCC Class B; -2 Models: CE,	UL 1778, cUL		
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Tower 1.5kVA to 3kVA

		SSG UPS Options	6		
		Extended Battery Bank Opti	ons - VRLA		
Extended Battery Bank Mode	I Numbers	SSGB	SSGB-1	SSGB-2	
Battery Type		12-Year Rated, Maintenance-Free, Sealed VRLA Batteries, 12Vdc, 7Ah			
Temperature	Operational Storage	-20°C to 55°C (-4°F to 131°F) When operated in temperatures above 25°C, the battery service life will be reduced. -20°C to 55°C (-4°F to 131°F) Batteries stored at 50°C will require monthly recharging and have a reduced service life.			
Internal 2A Charger		No	Yes		
Charger Input Voltage & Current		None	120Vac, 2.5A	208Vac to 240Vac, 2.5A	
Dimensions H x W x D	inches (mm)	14 x 10 x 19.2 (355.6 x 254 x 488)			
Weight	lb. (kg)	Extended Battery Module = 114 (51.7)	Extended Battery Module = 116 (52.7)		
	tery runtimes a	Extended Battery Runtime re identical for SSGB, SSGB-1, SSGB-	2 battery banks and are stated by		
UPS Model Numbers		SSG1.5K-1T SSG1.5K-2T	SSG2.2K-1T SSG2.2K-2T	SSG3K-1T SSG3K-2T	
Battery Runtimes by Model		1050W / 525W	1540W / 770W	2100W / 1050W	
	JPS as Shipped	6 / 18	10 / 27	6 / 18.9	
	ed Battery Bank d Battery Banks	48.7 / 118 106 / 241	36.3 / 90 73 / 170	23.8 / 60.6 48.5 / 118.1	
Note: Battery runtimes may v	ary depending or	n temperature, battery age and condition.			
		External Maintenance Bypass S			
			MB3K-1, MB3K-2		
3ypass Switch Model Numbe	rs	MB2K-1, MB2K-2	MB3K-1,	MB3K-2	
	rs	MB2K-1, MB2K-2 MB2K-1 used with SSG1.5K-1T MB2K-2 used with SSG1.5K-2T	MB3K-1 used with SSG2.2K-1T MB3K-2 used with SSG2.2K-2T	MB3K-1 used with SSG3K-11	
Model Selection	ers	MB2K-1 used with SSG1.5K-1T MB2K-2 used with SSG1.5K-2T	MB3K-1 used with SSG2.2K-1T	MB3K-1 used with SSG3K-11	
Model Selection Nominal Input/Output Voltage /A Rating		MB2K-1 used with SSG1.5K-1T MB2K-2 used with SSG1.5K-2T	MB3K-1 used with SSG2.2K-1T MB3K-2 used with SSG2.2K-2T , 120Vac -2, 208Vac to 240Vac 3000	MB3K-1 used with SSG3K-11	
Model Selection Nominal Input/Output Voltage /A Rating Switch Type		MB2K-1 used with SSG1.5K-1T MB2K-2 used with SSG1.5K-2T -1,	MB3K-1 used with SSG2.2K-1T MB3K-2 used with SSG2.2K-2T 120Vac -2, 208Vac to 240Vac 3000 Make-Before-Break	MB3K-1 used with SSG3K-1 MB3K-2 used with SSG3K-2	
Nodel Selection Nominal Input/Output Voltage /A Rating Switch Type Jtility Input and Load Output Co	onnection	MB2K-1 used with SSG1.5K-1T MB2K-2 used with SSG1.5K-2T -1, 2000	MB3K-1 used with SSG2.2K-1T MB3K-2 used with SSG2.2K-2T 120Vac -2, 208Vac to 240Vac 3000 Make-Before-Break Hardwire	MB3K-1 used with SSG3K-1 MB3K-2 used with SSG3K-2 3000	
Nodel Selection Nominal Input/Output Voltage /A Rating Switch Type Jtility Input and Load Output Co JPS Input Connection		MB2K-1 used with SSG1.5K-1T MB2K-2 used with SSG1.5K-2T -1, 2000 L5-20R L6-20R	MB3K-1 used with SSG2.2K-1T MB3K-2 used with SSG2.2K-2T 120Vac -2, 208Vac to 240Vac 3000 Make-Before-Break Hardwire L5-3 L6-2	MB3K-1 used with SSG3K-1 MB3K-2 used with SSG3K-2 3000 30R 20R	
Nodel Selection Nominal Input/Output Voltage /A Rating Switch Type Jtility Input and Load Output Co JPS Input Connection	onnection -1	MB2K-1 used with SSG1.5K-1T MB2K-2 used with SSG1.5K-2T -1, 2000 L5-20R	MB3K-1 used with SSG2.2K-1T MB3K-2 used with SSG2.2K-2T ,120Vac -2, 208Vac to 240Vac 3000 Make-Before-Break Hardwire L5-3	MB3K-1 used with SSG3K-11 MB3K-2 used with SSG3K-21 3000 30R 20R with L5-30P	
Model Selection Nominal Input/Output Voltage VA Rating Switch Type Jtility Input and Load Output Co UPS Input Connection UPS Output Connection	onnection -1 -2 -1	MB2K-1 used with SSG1.5K-1T MB2K-2 used with SSG1.5K-2T -1, 2000 L5-20R L6-20R 6' Line Cord with L5-20P 6' Line Cord with L6-20P	MB3K-1 used with SSG2.2K-1T MB3K-2 used with SSG2.2K-2T ,120Vac -2, 208Vac to 240Vac 3000 Make-Before-Break Hardwire L5-3 L6-2 6' Line Cord	MB3K-1 used with SSG3K-11 MB3K-2 used with SSG3K-21 3000 30R 20R with L5-30P	
Bypass Switch Model Numbe Model Selection Nominal Input/Output Voltage VA Rating Switch Type Utility Input and Load Output Co UPS Input Connection UPS Output Connection Dimensions H x W x D Weight	onnection -1 -2 -1 -2 -1 -2	MB2K-1 used with SSG1.5K-1T MB2K-2 used with SSG1.5K-2T -1, 2000 L5-20R L6-20R 6' Line Cord with L5-20P 6' Line Cord with L6-20P	MB3K-1 used with SSG2.2K-1T MB3K-2 used with SSG2.2K-2T 120Vac -2, 208Vac to 240Vac 3000 Make-Before-Break Hardwire L5-3 L6-2 6' Line Cord 6' Line Cord	MB3K-1 used with SSG3K-11 MB3K-2 used with SSG3K-21 3000 30R 20R with L5-30P	

*Note: Installation of MBS requires the installation of one UA88246 contact interface card inside the UPS communications card slot.

Typical Rear Panel Configuration



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