

# SGI® UPSafe™ Solutions

## UPSafe™ 5125 Uninterruptible Power System

### Features and Benefits

- Advanced Battery Management Plus (ABM™ Plus) doubles battery service life
- Buck/double boost voltage regulation with pure sine wave output
- Load segment control (separate receptacle groups) enable scheduled shutdowns and maximizes run time for each critical devices
- Network transient protector isolates networks, modems, and cables from surges and spikes
- X-Slot option modules that extend the UPS's power management capabilities
- Hot-swappable batteries simplify service
- Extended battery modules (EBM's) extend run time capability
- Complete offering of power management software included to ensure data integrity
- 2400/3000VA model increases uptime via hot-swappable electronics and battery module
- Two-in-one rack and tower form factor provides versatility

UPSafe 5125 provides advanced power management for PCs, workstations, and servers. Available in both rack-mount and tower configurations, the UPSafe 5125 is the most flexible UPS in the 1–3 kVA power range. Featuring capabilities often found in higher kVA units, the 5125 has load segments which enable scheduled shutdowns and load shedding, and offers advanced communications with the complete power management Software Suite for extensive control and monitoring.

UPSafe 5125 features Advanced Battery Management Plus (ABM™ Plus), which doubles battery service life, critical to maximizing system availability. ABM Plus also minimizes recharge time and provides up to 60 days notification when the batteries are approaching the end of their useful life. When alarm notification indicates the end of battery life is near, the batteries can be easily hot-swapped without powering down the connected load. User friendly design allows batteries to be exchanged through the front of the unit.

UPSafe 5125 design provides high power density, which conserves valuable space in rack, bench, bookshelf, or floor appliances. All models are manufactured to ISO 9001 standards and meet or exceed worldwide specifications for safety, performance, and excellence.



## UPSafe 5125 Model Selection Guide

Model Number <sup>1</sup>	Power Rating [VA/Watt]	Input/Output Voltage [VAC] <sup>2</sup>	Input Connection	Output Receptacles <sup>3</sup>	Dimensions HxWxD [in/mm]	Weight [lb/kg]
<b>Tower Models [North America]</b>						
PW5125 1000	1000/700	120	5-15P, 6 ft line cord	[6] 5-15R	9.45 x 6.38 x 15.79/ 240 x 162 x 401	34.3/15.6
PW5125 1500	1440/1050	120	5-15P, 6 ft line cord	[6] 5-15R	9.84 x 6.38 x 18.39/ 250 x 162 x 467	50.7/23.0
PW5125 2200	1920/1600	120	5-20P, 6 ft line cord	[6] 5-15R [2] 5-20R	9.84 x 8.07 x 19.4/ 250 x 205 x 493	68.3/31.0
PW5125 2200b	2080/1600	208	IEC-320-15A Inlet <sup>3</sup>	[9] IEC-320-10A	9.84 x 8.07 x 19.4/ 250 x 205 x 493	68.3/31.0
<b>Tower Models [International]</b>						
PW5125 1000i	1000/700	230	IEC-320-10A Inlet <sup>3</sup>	[6] IEC-320-10A	9.45 x 6.38 x 15.79/ 240 x 162 x 401	34.3/15.6
PW5125 1500i	1500/1050	230	IEC-320-10A Inlet <sup>3</sup>	[6] IEC-320-10A	9.84 x 6.38 x 18.39/ 250 x 162 x 467	50.7/23.0
PW5125 2200i	2200/1600	230	IEC-320-10A Inlet <sup>3</sup>	[9] IEC-320-10A	9.84 x 8.07 x 19.4/ 250 x 205 x 493	68.3/31.0
<b>Two-in-One Form Factor Models<sup>5</sup> [North America]</b>						
PW5125 1000 RM	1000/900	120	5-15P, 6 ft line cord	[6] 5-15R	3.5 x 17.0 x 19.4/ 89 x 432 x 494	34.0/15.0
PW5125 1500 RM	1440/1050	120	5-15P, 6 ft line cord	[6] 5-15R	3.5 x 17.0 x 19.4/ 89 x 432 x 494	50.0/23.0
PW5125 2400 RM	2400/2250	120	L5-30P, 12 ft line cord	[1] L5-30R [6] 5-15R	3.5 x 19.0 x 24.5/ 89 x 482.6 x 622.3	101.0/45.8
PW5125 3000 RM	2880/2700	120	L5-30P, 12 ft line cord	[1] L5-30R [6] 5-15R	3.5 x 19.0 x 24.5/ 89 x 482.6 x 622.3	101.0/45.8
<b>Two-in-One Form Factor Models<sup>5</sup> [International]</b>						
PW5125 1000i RM	1000/700	230	IEC-320-10A Inlet <sup>3</sup>	[6] IEC-320-10A	3.5 x 17.0 x 19.4/ 89 x 432 x 494	34.0/15.0
PW5125 1500i RM	1500/1050	230	IEC-320-10A Inlet <sup>3</sup>	[6] IEC-320-10A	3.5 x 17.0 x 19.4/ 89 x 432 x 494	50.0/23.0
PW5125 2400i RM	2400/2250	230	L6-20P 12 ft line cord	[1] IEC-320-16A [9] IEC-320-10A	3.5 x 19.0 x 24.5/ 89 x 482.6 x 622.3	101.0/45.8
PW5125 3000g RM	3000/2700	200-240	IEC-320-16A Inlet <sup>3</sup>	[1] IEC-320-16A [9] IEC-320-10A	3.5 x 19.0 x 24.5/ 89 x 483 x 622	101.0/45.8
PW5125 3000i RM	3000/2700	230	IEC-309-16A 12 ft line cord	[1] IEC-320-16A [9] IEC-320-10A	3.5 x 19.0 x 24.5/ 89 x 483 x 622	101.0/45.8
<b>Optional Extended Battery Modules [EBMs]</b>						
PW5125 24V EBM 1000VA tower models only			Standard Connector		9.84 x 6.38 x 18.66/ 250 x 162 x 474	59.5/27.0
PW5125 48V EBM 1500/2200VA tower models only			Standard Connector		9.84 x 6.38 x 18.66/ 250 x 162 x 474	59.5/27.0
PW5125 48V EBM RM 1000/1500VA RM models only			Standard Connector		3.5 x 17.0 x 19.4/ 89 x 432 x 494	65.0/29.5
PW5125 120 RM 2400/3000VA RM models only			Standard Connector		3.5 x 19.0 x 24.5/ 89 x 483 x 622	121.0/54.9

1.50/60 automatic frequency selection. 2.120V models 110V, 120V, 127V user-selectable. 230V models 220V, 230V, 240V user-selectable. 208V models 208V, 220V, 230V, 240V user-selectable. 3. Includes [2] each IEC interconnect cables. 4. 1000-1500VA models divided into [2] Load Segments [receptacle groups]. 2200-3000VA models divided into [3] Load Segments [receptacle groups]. 5. Unit fits in standard 19-inch racks. Mounting kits are sold separately.

For additional models information are on <http://www.sgi.com/go/upsafe>

## UPSafe 5125 Battery Run Time Chart [in minutes full load/half load]\* VA Standard Internal

Batteries	1 EBM	2 EBMs	3 EBMs	4 EBMs
<b>Tower Models</b>				
1000	5/14	25/60	55/170	83/199
1500	6/17	33/79	63/146	92/174
2200	5/14	26/60	55/170	81/198
<b>Two-in-One Form Factor</b>				
Batteries	1 EBM	2 EBMs	3 EBMs	4 EBMs
1000	7/19	33/68	58/120	82/166
1500	5/13	23/57	49/161	73/172
2400	7/19	35/73	60/124	85/177
3000	5/15	25/61	49/103	69/146

\*Up to 4 EBMs can be connected to 1000-3000VA models. EBM run times include internal batteries. Run time chart provides typical information. Battery run times are approximate and may vary with equipment, configuration, battery age, temperature, etc.

## UPSafe 5125 Technical Specifications<sup>1</sup>

<b>Electrical Input</b>	
• Nominal voltage	120, 208 and 230Vac; See Model Selection Guide for 120, 208, 230 and 240Vac;
• Input voltage ranges for user-selectable voltages	Low voltage: 77—152V; High voltage: 154—288V
• Operating Frequency	50/60Hz, Auto-sensing
• Frequency Range	46—65Hz
<b>Electrical Output</b>	
• On utility voltage regulation	-10% to +6% of nominal
• On battery voltage regulation	± 5% RMS
• Voltage wave shape [on battery]	Sine wave
• Output protection	Short circuit protection
<b>Battery</b>	
• Battery type	Sealed, lead-acid; maintenance free
• Battery replacement	Hot-swappable internal batteries and external batteries modules
• Recharge time	<3 hours to 90% usable capacity
<b>General</b>	
• Diagnostics	Full system self-test on power up
• UPS Bypass	No bypass internal bypass
• Transfer time	2-4ms typical
• Overload [normal operation]	110% overload, shutdown after 3 minutes. 110% overload for 30 seconds short circuit protected 150% overload, shut down 10 cycles
<b>Communications</b>	
• User interface	Front Control Panel
• Audible alarms	For various UPS alarm conditions, including: On Battery, Low Battery, Overload, UPS fault UL 497 A, In/out jacks RJ45 [high voltage models network protection] & RJ11 [low voltage models modem protection]
• Network transient protector	Meets NEC code 645-II intent and UL requirements
• REPO port	Meets NEC code 645-II intent and UL requirements
• X-Slot interface	RS-232 Single Serial Module [standard], Other options available: RS-232 multi-port module [6], SNMP/Web Module; USB Module; Relay Module Cable 6-foot communications cable included Power Management Software Powerware Software Suite CD-ROM [bundled with UPS]
<b>Environmental</b>	
• Safety certifications	UL; cUL; NOM; C-Tick; CE mark EMC Compliance FCC Part 15, EN50091-2, Class A for 2.2KVA and RM; FCC Part 15, EN50091-2, Class A Class B for 1000 and 1500VA tower models
• Operating temperature	0 to 40 °C [32 to 104 °F]
• Storage temperature	-15 to 50 °C [5 to 122 °F]
• Relative humidity	0% to 95% non-condensing
• Lightning & surge protection	ANSI/IEEE C62.41 [IEEE 587], IEC61000-4-5
• Surge energy rating	480 Joules
• Audible noise	Less than 40 dBA typical
• Altitude	3000m [10,000 ft] without derating

1. Specifications are subject to change without notice due to continuing product improvement programs.



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