

# Smart-UPS SMT1K2RJ1U

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Life Is On Schneider

## SMT1K2RJ1U Features

Protect your sensitive electronics with extended-range automatic voltage regulation and best-in-class UPS management through the SMT1K2RJ1U model. SMT1K2RJ1U is a new and improved successor for the SMT1200RMJ1U model.



### Improved Energy Efficiency

Save money on utility and cooling costs while reducing your business's carbon footprint.

Energy Efficiency	SMT1200RMJ1U	SMT1K2RJ1U
50% Load	97.5%	97.71%
75% Load	97.88%	98.21%
100% Load	97.92%	98.38%

### **Upgraded Connectivity Ports and Control**

Connect to PowerChute Business Edition Software by using a USB type A port. This model boasts an Emergency Power Off (EPO) port to enable external control with the UPS.



PowerChute Business Edition Built-in manageability for your UPS

Graceful unattended shutdown of servers and workstations using serial or USB cables helps prevent data corruption and costly equipment damage...

# SMT1K2RJ1U Features

### **Evolved Firmware Update Mechanism**

Keep your equipment connected and powered ON by the UPS while doing the firmware upgrades.



- 1. Two switched outlet group
- 2. Emergency power off
- 3. USB port for PowerChute Business Edition software recognition
- 4. Serial port
- 5. SmartSlot™

### **Application**

Designed for mid-market IT Professionals & network administrators to maintain business uptime and continuity, across multiple applications..

- ✓ Network closets
- √ Server rooms
- ✓ Retail point of sale
- ✓ Business VoIP
- ✓ Data storage
- √ Network attached storage
- ✓ Edge networks
- ✓ Business desktop



## **Smart-UPS Accessories**

#### UPS management accessories

- AP9640J: UPS network management card 3
- AP9641J: UPS network management card with environmental monitoring 3
- AP9630J: UPS network management card 2
- AP9631J: UPS network management card with environmental monitoring 2
- . AP9613: APC dry contact I/O SmartSlot™ card
- AP9620: Legacy communications SmartSlot™ card
- AP9624: UPS interface Expander 2



#### Power distribution unit

AP7900B: Rack PDU, Switched, 1U, 15A, 100/120V, (8)5-15



AP7900B

AP7800B: Rack PDU, Metered, 1U, 15A, 100/120V, (8) 5-15



### Battery pack

APCRBC88J: APC Replacement Battery Cartridge



### Specifications for SMT1K2RJ1U

Topology		SMT1K2RJ1U	
Output         Output power capacity         1000 Watts / 1200 VA           Nomimal output voltage         1000 V           Output voltage distortion         Less than 5% at full load           Fraquency On-Line         47-63 + 70.3 + 2           Waveform type         Sine Wave           Output connections         2 groups of 2 x NEMA 5-15R           Efficiency at full load         >98%           Imput         1000 V           Input         1000 V           Input connections         1000 V           Battery type         Valve Regulated Lead Acid (VRI A)           Rutting (RIL Input connections and management         4.5/15 min           Replacement Battery         A PCRBC88.I           Communications and management         1000 V           Imerace portion (RIL Input connections)         1000 V	Topology	Smart-UPS Line Interactive	
Output power capacity         1000V Manual output voltage           Output voltage dissortion         Less than 6% at full load           Frequency On-Line         47-63 H-0.9Hz           Waveform type         Sine Wave           Output voltage of the properties			
Nominal output voltage         100V           Output voltage distortion         Less than 5% at full load           Frequency On-Line         47-63 ± 0.3 ±		1000 Watts / 1200 VA	
Frequency On-Line         47-63 +/-0.3Hz           Waveform type         Sine Wave           Output connections         2 groups of 2 x NEMA 6-15R           Efficiency at full load         >98%           Input         ************************************		100V	
Waveform type         Sine Wave           Output connections         2 groups of 2 x NEMA 5-15R           Efficiency at full load         >988%           Input         ************************************		Less than 5% at full load	
Output connections         2 groups of 2 x NEMA 5-15R           Efficiency at full load         ⇒98%           Input           Nominal input voltage         100V           Input frequency         47Hz-53Hz & 57Hz-63Hz           Input connections         NEMA 5-15P           Default input voltage range for Utility operation         83-119 Vac           Batteries and runtime         Falteries and runtime           Battery type         Valve Regulated Lead Acid (VRLA)           Runtime (full load) Half load)         4.5/15 min           Replacement Battery         APCRBC88J           Communications and management         Interface port(s)           Interface port(s)         USB Type A. Serial (RU45)           SmartSlott**         Yes           Control panel         Multi-function LD status and control console           Emergency Power Off (EPO)         Yes           Software compatibility         PCBE 10.0 and later           Physical         10           Net HxWxD, mm         44.45 x 432 x 665           Rack height         10           Net weight         3.0 5 kg           Shipping Weight         3.0 5 kg           Shipping Weight         0.40 °C           Operating environment         0.40 °C	Frequency On-Line	47-63 +/-0.3Hz	
Efficiency at full load         >98%           Input           Nominal input voltage         100V           Input connections         NEMA 5-15P           Default Input voltage range for Utility operation         83-119 Vac operation           Batter Jose and runtime         Valve Regulated Lead Acid (VRLA)           Batter Jose and runtime         Valve Regulated Lead Acid (VRLA)           Runtime (Full load/ Half load)         4.5/15 min           Replacement Battery         APCRBC8BJ           Communications and management         4.5/15 min           Interface port(s)         USB Type A, Serial (RJ45)           SmartSlot**         Yes           Control panel         Multi-function LCD status and control console           Emergency Power Off (EPO)         Yes           Software compatibility         PCBE 10.0 and later           Physical         10           Net HxWxD, mm         44.45 x 432 x 665           Rack height         1U           Not weight         3.0 kg           Shipping weight         3.0 kg           Shipping HxWxD, mm         190 x 575 x 800           Environmental         0 - 40 °C           Operating environment         0 - 95% non condensing           Operating elevation <t< td=""><td>Waveform type</td><td>Sine Wave</td></t<>	Waveform type	Sine Wave	
Input           Nominal input voitage         100V           Input frequency         47Hz-53Hz & 57Hz-63Hz           Input connections         NEMA 5-15P           Default Input voitage range for Utility operation         83-119 Vac           Battery sand runtime           Battery type         Valve Regulated Lead Acid (VRLA)           Runtime (Full load/ Half load)         4.5/15 min           Replacement Battery         APCRBC88J           Communications and management           Interface port(s)         USB Type A, Serial (RJ45)           SmartSlot™         Yes           Control panel         Multi-function LCD status and control console           Emergency Power Off (EPO)         Yes           Software compatibility         PCBE 10.0 and later           Physical         1           Net HxWYO, mm         44.45 x 432 x 665           Rack height         1           Net weight         30.5 kg           Shipping HxWxD, mm         190 x 575 x 800           Environmental         0 – 40 °C           Operating environment         0 – 40 °C           Operating elevation         3.030 meters           Storage relative humidity         0 – 95% non-condensing           Otroag	Output connections	2 groups of 2 x NEMA 5-15R	
Nominal input voltage         100V           Input frequency         47Hz-SaHz & 57Hz-63Hz           Input connections         NEMA 5-16P           Default Input voltage range for Utility operation         83-119 Vac           Patterles and runtime         Patterles and Full Index           Batterly bye         Valve Regulated Lead Acid (VRLA)           Runtime (Full load/ Half load)         4.5/15 min           Replacement Battery         APCRBC88J           Communications and management           Interface port(s)         USB Type A, Serial (RJ45)           Smart Slot™         Yes           Control panel         Multi-function LCD status and control console           Emergency Power Off (EPO)         Yes           Software compatibility         PCBE 10.0 and later           Physical         1U           Net HxWxD, mm         44.45 x 432 x 665           Rack height         1U           Net weight         3.0.5 kg           Shipping wight         3.0.5 kg           Shipping HxWxD, mm         190 x 675 x 800           Environmental         0 - 40 °C           Operating environment         0 - 40 °C           Operating elevation         0 - 3000 meters           Storage temperature <t< td=""><td>Efficiency at full load</td><td>&gt;98%</td></t<>	Efficiency at full load	>98%	
Input frequency         47Hz-53Hz & 57Hz-63Hz           Input connections         NEMA 5-15P           Default Input voltage range for Utility operation         83-119 Vac operation           Batter) type         Valve Regulated Lead Acid (VRLA)           Runtime (Full load/ Half load)         4.5/15 min           Replacement Battery         APCRBC88J           Communications and management           Interface port(s)         USB Type A, Serial (RJ45)           SmartSlot <sup>IM</sup> Yes           Control panel         Multi-function LCD status and control console           Emergency Power Off (EPO)         Yes           Software compatibility         PCBE 10.0 and later           Physical         44.45 x 432 x 665           Rack height         1U           Net weight         24.5 kg           Shipping weight         30.5 kg           Shipping hkWsD, mm         190 x 575 x 800           Environmental         0-40 °C           Operating environment         0-95% non condensing           Operating elavito humidity         0-95% non condensing           Operating elevation         0-3000 meters           Storage relative humidity         0-95%, non-condensing           Storage relative humidity         0-95%, non-	Input		
Input connections         NEMA 5-15P           Default Input voltage range for Utility operation         83-119 Vac operation           Batteries and runtime         Walve Regulated Lead Acid (VRLA)           Battery type         Valve Regulated Lead Acid (VRLA)           Runtime (Full load)         4.5/15 min           Replacement Battery         APCRBC88J           Communications and management         Interface port(s)         USB Type A, Serial (RJ45)           SmartSlot™         Yes           Control panel         Multi-function LCD satus and control console           Emergency Power Off (EPO)         Yes           Software compatibility         PCBE 10.0 and later           Physical         1U           Net will will will will be used to the satus of the saturation o	Nominal input voltage	100V	
Default Input voltage range for Utility operation         83-119 Vac           Batter Stype         Valve Regulated Lead Acid (VRLA)           Runtime (Full load/ Half load)         4.5/15 min           Replacement Battery         APCRBC88J           Communications and management           Interface port(s)         USB Type A, Serial (RJ45)           SmartSlorw         Yes           Control panel         Multi-function LCD status and control console           Emergency Power Off (EPO)         Yes           Software compatibility         PCBE 10.0 and later           Physical         1U           Net HXWXD, mm         44.45 x 432 x 665           Rack height         1U           Net weight         3.0,5 kg           Shipping weight         3.0,5 kg           Shipping shard, mm         190 x 575 x 800           Environmental           Operating environment         0-40 °C           Operating relative humidity         0-95% non condensing           Operating elevation         3.000 meters           Storage temperature         15 - 45 °C           Storage relative humidity         0-95%, non-condensing           Storage relative humidity         0-95%, non-condensing           Conforman	Input frequency	47Hz~53Hz & 57Hz~63Hz	
operation           Batter's and runtime           Batter's type         Valve Regulated Lead Acid (VRLA)           Runtime (Full load/ Half load)         4.5/15 min           Replacement Battery         APCRBC8BJ           Communications and management           Interface port(s)         USB Type A, Serial (RJ45)           SmartSlot™         Yes           Control panel         Multi-function LOD status and control console           Emergency Power Off (EPO)         Yes           Software compatibility         PCBE 10.0 and later           Physical           Native HXXXD, mm         44.45 x 432 x 665           Rack height         10           Net HXXXD, mm         44.45 x 432 x 665           Rack height         10           Net weight         24.5 kg           Shipping HXXXD, mm         19         25.7 kg         25.8 kg         25.8 kg         25.8 kg         25.8 kg         25.8 kg         25.8 kg	Input connections	NEMA 5-15P	
Battery type         Valve Regulated Lead Acid (VRLA)           Runtime (Full load/ Half load)         4.5/15 min           Replacement Battery         APCRBC88J           Communications and management           Interface port(s)         USB Type A, Serial (RJ45)           SmartSlot <sup>™</sup> Yes           Control panel         Multi-function LCD status and control console           Emergency Power Off (EPO)         Yes           Software compatibility         PCBE 10.0 and later           Physical           Net HXWXD, mm         44.45 x 432 x 665           Rack height         1U           Steweight         30.5 kg           Shipping weight         30.5 kg           Shipping HXWXD, mm         190 x 575 x 800           Environmental           Operating environment           Operating elevition ments           Operating elevation           Operating elevation           Operating elevation         0-95% non-condensing           Storage elevation         0-95%, non-condensing           Storage relative humidity         0-95%, non-condensing           Storage relative humidity         0-95%, non-condensing           Storage relative hum		83-119 Vac	
Runtime (Full load)         4.5/15 min           Replacement Battery         APCRBC88J           Communications and management           Interface port(s)         USB Type A, Serial (RJ45)           SmartSlot™         Yes           Control panel         Multi-function LCD status and control console           Emergency Power Off (EPO)         Yes           Software compatibility         PCBE 10.0 and later           Physical           Net HXWXD, mm         44.45 x 432 x 665           Rack height         1U           Net weight         24.5 kg           Shipping weight         30.5 kg           Shipping HXWXD, mm         190 x 575 x 800           Environmental         0 − 40 °C           Operating environment         0 − 40 °C           Operating relative humidity         0 − 95% non condensing           Operating elevation         0.3000 meters           Storage temperature         .15 − 45 °C           Storage elevation         0.95%, non-condensing           Storage elevation         0.15000 meters           Audible noise at 1 meter from surface of unit         < 50 dBA	Batteries and runtime		
Replacement Battery         APCRBC88J           Communications and management           Interface port(s)         USB Type A, Serial (RJ45)           Smart Slot**         Yes           Control panel         Multi-function LCD status and control console           Emergency Power Off (EPO)         Yes           Software compatibility         PCBE 10.0 and later           Physical           Net HXWXD, mm         44.45 x 432 x 665           Rack height         1U           Net weight         24.5 kg           Shipping weight         30.5 kg           Shipping HXWXD, mm         190 x 575 x 800           Environmental         -40°C           Operating environment         0-40°C           Operating elevation         0-3000 meters           Storage temperature         -3000 meters           Storage elevation         0-15000 meters           Storage elevation         0-15000 meters           Audible noise at 1 meter from surface of unit         < 50 dBA           Conformance           Safety approvals         UL1778	Battery type	Valve Regulated Lead Acid (VRLA)	
Communications and management           Interface port(s)         USB Type A, Serial (RJ45)           SmartSlot™         Yes           Control panel         Multi-function LCD status and control console           Emergency Power Off (EPO)         Yes           Software compatibility         PCBE 10.0 and later           Physical           Net HxWxD, mm         44.45 x 432 x 665           Rack height         1U           Net weight         24.5 kg           Shipping weight         30.5 kg           Shipping HxWxD, mm         190 x 575 x 800           Environmental           Operating environment         0 − 40 °C           Operating environment         0 − 95% non condensing           Operating elevation         0 - 3000 meters           Storage temperature         -15 – 45 °C           Storage relative humidity         0 – 95%, non-condensing           Storage elevation         0 - 15000 meters           Audible noise at 1 meter from surface of unit         < 50 dBA	Runtime (Full load/ Half load)	4.5/15 min	
Interface port(s)         USB Type A, Serial (RJ45)           Smart Slot™         Yes           Control panel         Multi-function LCD status and control console           Emergency Power Off (EPO)         Yes           Software compatibility         PCBE 10.0 and later           Physical           Net HxWxD, mm         44.45 x 432 x 665           Rack height         1U           Net weight         24.5 kg           Shipping weight         30.5 kg           Shipping HxWxD, mm         190 x 575 x 800           Environmental           Operating environment         0 − 40 °C           Operating relative humidity         0 − 95% non condensing           Operating elevation         0 - 3000 meters           Storage temperature         -15 - 45 °C           Storage elevation         0 - 95%, non-condensing           Storage elevation         0 - 15000 meters           Audible noise at 1 meter from surface of unit         < 50 dBA           Conformance           Safety approvals         UL1778	Replacement Battery	APCRBC88J	
SmartSlot™         Yes           Control panel         Multi-function LCD status and control console           Emergency Power Off (EPO)         Yes           Software compatibility         PCBE 10.0 and later           Physical           Net HxWxD, mm         44.45 x 432 x 665           Rack height         1U           Net weight         24.5 kg           Shipping weight         30.5 kg           Shipping HxWxD, mm         190 x 575 x 800           Environmental           Operating environment         0 - 40 °C           Operating relative humidity         0 - 95% non condensing           Operating elevation         0 - 3000 meters           Storage temperature         15 - 45 °C           Storage relative humidity         0 - 95%, non-condensing           Storage elevation         0 - 15000 meters           Audible noise at 1 meter from surface of unit         < 50 dBA           Conformance           Safety approvals         UL1778	Communications and management		
Control panel         Multi-function LCD status and control console           Emergency Power Off (EPO)         Yes           Software compatibility         PCBE 10.0 and later           Physical           Net HxWxD, mm         44.45 x 432 x 665           Rack height         1U           Net weight         24.5 kg           Shipping weight         30.5 kg           Shipping HxWxD, mm         190 x 575 x 800           Environmental           Operating environment         0 - 40 °C           Operating relative humidity         0 - 95% non condensing           Operating elevation         0 - 3000 meters           Storage temperature         -15 - 45 °C           Storage relative humidity         0 - 95%, non-condensing           Storage elevation         0 - 15000 meters           Audible noise at 1 meter from surface of unit         < 50 dBA           Conformance           Safety approvals         UL1778	Interface port(s)	USB Type A, Serial (RJ45)	
Emergency Power Off (EPO)         Yes           Software compatibility         PCBE 10.0 and later           Physical           Net HxWxD, mm         44.45 x 432 x 665           Rack height         1U           Net weight         24.5 kg           Shipping weight         30.5 kg           Shipping HxWxD, mm         190 x 575 x 800           Environmental         0-40 °C           Operating environment         0-95% non condensing           Operating elevation         0-3000 meters           Storage temperature         -15-45 °C           Storage relative humidity         0-95%, non-condensing           Storage elevation         0-15000 meters           Audible noise at 1 meter from surface of unit         < 50 dBA           Conformance           Safety approvals         UL1778	SmartSlot™	Yes	
Software compatibility         PCBE 10.0 and later           Physical           Net HxWxD, mm         44.45 x 432 x 665           Rack height         1U           Net weight         24.5 kg           Shipping weight         30.5 kg           Shipping HxWxD, mm         190 x 575 x 800           Environmental           Operating environment         0 - 40 °C           Operating relative humidity         0 - 95% non condensing           Operating elevation         -3000 meters           Storage temperature         -15 - 45 °C           Storage elevation         0-15000 meters           Audible noise at 1 meter from surface of unit         < 50 dBA	Control panel	Multi-function LCD status and control console	
Physical           Net HxWxD, mm         44.45 x 432 x 665           Rack height         1U           Net weight         24.5 kg           Shipping weight         30.5 kg           Shipping HxWxD, mm         190 x 575 x 800           Environmental           Operating environment         0 - 40 °C           Operating relative humidity         0 - 95% non condensing           Operating elevation         0-3000 meters           Storage temperature         -15 - 45 °C           Storage relative humidity         0 - 95%, non-condensing           Storage elevation         0 - 15000 meters           Audible noise at 1 meter from surface of unit         < 50 dBA	Emergency Power Off (EPO)	Yes	
Net HxWxD, mm         44.45 x 432 x 665           Rack height         1U           Net weight         24.5 kg           Shipping weight         30.5 kg           Shipping HxWxD, mm         190 x 575 x 800           Environmental           Operating environment         0 - 40 °C           Operating relative humidity         0 - 95% non condensing           Operating elevation         0 - 3000 meters           Storage temperature         -15 - 45 °C           Storage relative humidity         0 - 95%, non-condensing           Storage elevation         0 - 15000 meters           Audible noise at 1 meter from surface of unit         < 50 dBA	Software compatibility	PCBE 10.0 and later	
Rack height         1U           Net weight         24.5 kg           Shipping weight         30.5 kg           Shipping HxWxD, mm         190 x 575 x 800           Environmental           Operating environment         0 - 40 °C           Operating relative humidity         0 - 95% non condensing           Operating elevation         0-3000 meters           Storage temperature         -15 - 45 °C           Storage relative humidity         0 - 95%, non-condensing           Storage elevation         0-15000 meters           Audible noise at 1 meter from surface of unit         < 50 dBA	Physical		
Net weight24.5 kgShipping weight30.5 kgShipping HxWxD, mm190 x 575 x 800EnvironmentalOperating environment0 - 40 °COperating relative humidity0 - 95% non condensingOperating elevation0-3000 metersStorage temperature-15 - 45 °CStorage relative humidity0 - 95%, non-condensingStorage elevation0-15000 metersAudible noise at 1 meter from surface of unit< 50 dBA	Net HxWxD, mm	44.45 x 432 x 665	
Shipping weight 30.5 kg Shipping HxWxD, mm 190 x 575 x 800  Environmental  Operating environment 0 - 40 °C Operating relative humidity 0 - 95% non condensing Operating elevation 0-3000 meters Storage temperature -15 - 45 °C Storage relative humidity 0 - 95%, non-condensing Storage elevation 0-15000 meters Audible noise at 1 meter from surface of unit < 50 dBA  Conformance Safety approvals  UL1778	Rack height	1U	
Shipping HxWxD, mm  Environmental  Operating environment  Operating relative humidity  Operating elevation  Operating elevation  Storage temperature  Storage relative humidity  O - 95%, non-condensing  O - 3000 meters  Storage relative humidity  O - 95%, non-condensing  O - 15 - 45 °C  Storage elevation  O - 15000 meters  Audible noise at 1 meter from surface of unit  Conformance  Safety approvals  UL1778	Net weight	24.5 kg	
Environmental  Operating environment  Operating relative humidity  Operating elevation  Operating elevation  Operating elevation  Operating elevation  Operating elevation  Operating elevation  O-3000 meters  Storage temperature  -15 - 45 °C  Storage relative humidity  O-95%, non-condensing  Storage elevation  O-15000 meters  Audible noise at 1 meter from surface of unit  Conformance  Safety approvals  UL1778	Shipping weight	30.5 kg	
Operating environment       0 - 40 °C         Operating relative humidity       0 - 95% non condensing         Operating elevation       0-3000 meters         Storage temperature       -15 - 45 °C         Storage relative humidity       0 - 95%, non-condensing         Storage elevation       0-15000 meters         Audible noise at 1 meter from surface of unit       < 50 dBA	Shipping HxWxD, mm	190 x 575 x 800	
Operating relative humidity  Operating elevation  Operating elevation  Occupance  Storage temperature  Conformance  Operating elevation  Occupance  Occupa	Environmental		
Operating elevation 0-3000 meters  Storage temperature -15 - 45 °C  Storage relative humidity 0 - 95%, non-condensing  Storage elevation 0-15000 meters  Audible noise at 1 meter from surface of unit < 50 dBA  Conformance  Safety approvals UL1778	Operating environment	0 – 40 °C	
Storage temperature -15 - 45 °C  Storage relative humidity 0 - 95%, non-condensing  Storage elevation 0-15000 meters  Audible noise at 1 meter from surface of unit < 50 dBA  Conformance  Safety approvals UL1778	Operating relative humidity	0 – 95% non condensing	
Storage relative humidity 0 – 95%, non-condensing Storage elevation 0-15000 meters Audible noise at 1 meter from surface of unit < 50 dBA  Conformance Safety approvals UL1778	Operating elevation	0-3000 meters	
Storage elevation 0-15000 meters Audible noise at 1 meter from surface of unit < 50 dBA  Conformance Safety approvals UL1778	Storage temperature	-15 – 45 °C	
Storage elevation 0-15000 meters Audible noise at 1 meter from surface of unit < 50 dBA  Conformance  Safety approvals  UL1778	Storage relative humidity	0 - 95%, non-condensing	
Conformance Safety approvals UL1778		0-15000 meters	
Safety approvals UL1778	Audible noise at 1 meter from surface of unit	< 50 dBA	
	Conformance		
	Safety approvals	UL1778	
Standard warranty 2-Year UPS and batteries	Standard warranty	2-Year UPS and batteries	



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