

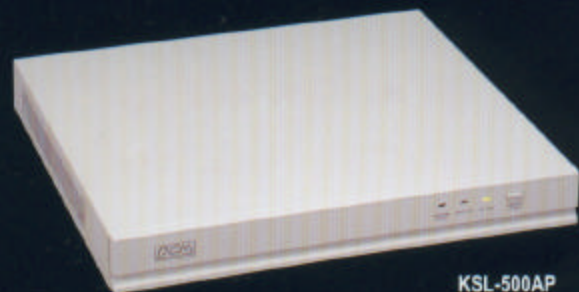
# KING Pro

*Complete Protection for Internet Computers and Advanced Servers*

- Line interactive design
- Fully digitized microprocessor controlled
- Smart RS-232 communication port
- Tel/modem internet surge suppression
- Boost and buck AVR
- Hot swappable battery by users \*
- Extended back up time with battery pack \*
- Surge protection output for critical load \*
- AVR boost & buck LED \*
- Overload, on-line, battery status LED
- Lightning and surge protection
- Short circuit and overload protection
- 50/60Hz frequency auto sensing
- EMI/RFI noise filter
- Cold start (DC power on)
- Advanced battery management (ABM)
- Energy saving (UPS sleep mode)
- Site wiring fault LED display\*\*
- Automatically charging when UPS off
- History record of power failure events
- Schedule shutdown & reboot
- Back up, on-line, battery status, power status display by software

\* features available on 800VA and up models

\*\* feature only for 100V/110V/115V/120V model



KSL-500AP



425/525/625VA



800/1000/1200/1500VA

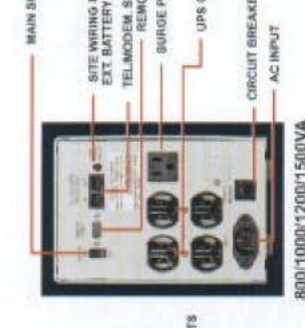
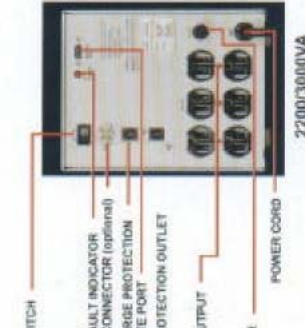
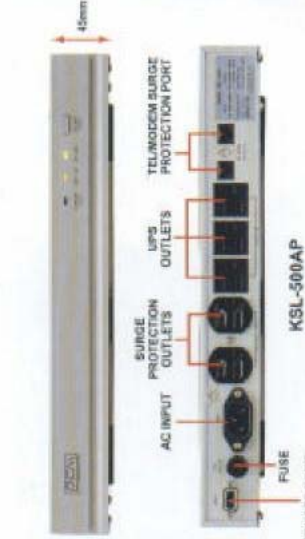


2200/3000VA



Complete Power Solution™

ISO 9001 Certified Company



**SPECIFICATION**

MODEL	KIN-425AP	KIN-525AP	KIN-625AP	KSL-500AP	KIN-800AP	KIN-1000AP	KIN-1200AP	KIN-1500AP	KIN-2200AP	KIN-3000AP
<b>INPUT</b>	425VA	525VA	625VA	500VA	800VA	1000VA	1200VA	1500VA	2200VA	3000VA
<b>OUTPUT</b>	Capacity Voltage Frequency Voltage (on battery) Frequency (on battery) Voltage Regulation AVR Transfer Time Spike Protection EMI/RFI filter Overload Protection Unit Input 10Base-T Cable Port Short Circuit									
<b>PROTECTION and FILTERING</b>	+/-25% at line input 50 or 60Hz +/-10% (auto sensing) Simulated sine wave at 100V/110V/115V/120V/220V/230V/240V +/-5% 50 or 60Hz +/-0.5% AVR automatically increase output voltage 15% above input voltage if -9% to -25% of nominal. AVR decrease output voltage 13% below input voltage if +9% to +25% of nominal 2/4 milliseconds, including detection time 320 Joules, 2 ms 10dB at c. 15MHz, 50 dB at 30MHz UPS automatic shutdown if overload over 110% of nominal at 60 seconds and 130% at 3 seconds. Fuse for overload & short circuit protection Network (UTP, RJ-45) compatible jacks UPS output cut off immediately or input fuse protection Scaled, maintenance-free lead acid, with 3-5 years typical lifetime 4 hours (to 90% of full capacity)									
<b>BATTERY</b>	Automatic self-test, Discharge protection, Replace battery indicator Back-up Time (a PC with 15" monitor) Weight kg (lbs) Dimension (mm) WxDxH Battery Back-up Battery Low Overload									
<b>BACK UP TIME</b>	15 - 25 minutes	20 - 30 minutes	25 - 35 minutes	20 - 30 minutes	55 - 65 minutes	60 - 70 minutes	65 - 75 minutes	70 - 80 minutes	85 - 95 minutes	140 - 160 minutes
<b>PHYSICAL</b>	5.8 (12.8 lb)	6.2 (13.7 lb)	6.5 (14.3 lb)	8.5 (18.7 lb)	13 (28.6 lb)	15 (33.0 lb)	15.2 (33.4 lb)	15.8 (34.3 lb)	26.2 (57.6 lb)	28.9 (63.6 lb)
<b>ALARM</b>	97 x 320 x 135 (3.8" x 12.6" x 5.3") 370x345x45 (14.6"x13.6"x1.8") 130 x 382 x 201 (5.1" x 15" x 7.9") 170 x 450 x 215 (6.7" x 17.7" x 8.5")									
<b>INTERFACE</b>	RS-232 Interface Ambient operation Audible noise									
<b>ENVIRONMENT</b>	3,500 meters max. elevation, 0-95% humidity non-condensing, 0-40 deg C <40dBA (1 meter from surface)									

Available Through:



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# KING PRO AL/XL Series

**UPS with Continuous Rated Capacity for continuous Backup**  
**Main Unit Excludes Internal Batteries**

- Extend backup time by adding ext. battery packs
- Backup time depends on quantities of connected ext. battery packs
- Fully digitized microprocessor controlled
- Smart RS-232 communication port
- Boost/buck, on-line, battery status LED display
- Advanced battery management (ABM)
- Energy saving (UPS sleep mode)
- Short circuit and overload protection
- Smart power management with software
- Lightning and surge protection
- 50/60Hz frequency auto sensing
- Cold start (DC power on)
- Built in fast charger
- Line interactive design
- Boost and buck AVR
- Site wiring fault warning \*
- Hot swappable battery by users
- Tel/modem internet spike protection

\* feature only for 100V/110V/115V models.



KXL-1000AP



KXL-2000AP



For KAL-1000AP  
Battery Pack

KAL-1000AP



KAL-2000AP

For KAL-2000AP  
Battery Pack



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## SPECIFICATION

MODEL		KAL-1000AP	KXL-1000AP	KAL-2000AP	KXL-2000AP
INPUT	Capacity	1000VA/600W	1000VA/600W	2000VA/1200W	2000VA/1200W
	Voltage	+/-25% at line input			
	Frequency	50 or 60Hz +/-10% (auto sensing)			
OUTPUT	Voltage (on battery)	Simulated sine wave at +/-5% of nominal			
	Frequency (on battery)	50 or 60Hz +/-0.5%			
	Voltage Regulation(AVR)	AVR automatically increase output voltage 15% above input voltage if -9% to -25% of nominal. AVR decrease output voltage 13% below input voltage if +9% to +25% of nominal			
	Transfer	2/4 milliseconds, including detection time			
PROTECTION and FILTERING	Spike Protection	320 Joules, 2ms			
	EMI/RFI filter	10dB at 0.15MHz, 50 dB at 30MHz			
	Overload Protection	UPS automatic shutdown if overload exceeds 110% of nominal at 60 seconds and 130% at 3 seconds.			
	Unit Input	Circuit breaker for overload & Short circuit protection			
	10Base-T Cable Port	Network (UTP, RJ-45) compatible jacks			
	Short Circuit	UPS output cut off immediately or input fuse protection			
BATTERY	Type	Sealed, Maintenance-free lead acid			
	Typical Recharge Time	4 hours (to 90% of full capacity)			
	Protection	Automatic self-test & discharge protection, Replace battery indicator			
	Built in fast charger	2.6A	0.6A	1.8A	0.8A
PHYSICAL	Net Weight Kg (lbs)	15.1 (33.22 lb)	19.8 (43.56 lb)	19.5 (42.9 lb)	28.9 (63.58 lb)
	Shipping Weight Kg (lbs)	16.3 (38.86 lb)	21.0 (46.20 lb)	22 (48.4 lb)	31.4 (69.08 lb)
	Dimension (mm) W x D x H	130 x 382 x 201 (5.1" x 15" x 7.9")		169 x 438.5 x 215 (6.7" x 17.3" x 8.5")	
	Input Inlet	IEC 320 power inlet			
	Receptacles	NEMA 5-15R(115V) / IEC320 female appliance coupler(230V)			
	ALARM	Battery Back-up	Slow beeping sound (about 0.47Hz)		
Battery Low		Rapid beeping sound (about 1.824Hz)			
Overload		Continue beeping sound			
INTERFACE	Dry contact	AC fail. battery low. shutdown signal			
	RS-232 Interface	Bi-directional communication port			
ENVIRONMENT	Ambient operation	3,500 meters max. elevation, 0-95% humidity non-condensing, 0-40 deg C			
	Audible noise	<40dBA (1 meter from surface)			
	Storage condition	15000meters max. elevation			

**Available Through:**

# KING RM Series

*Complete Protection for Internet Computers and Advanced Servers*

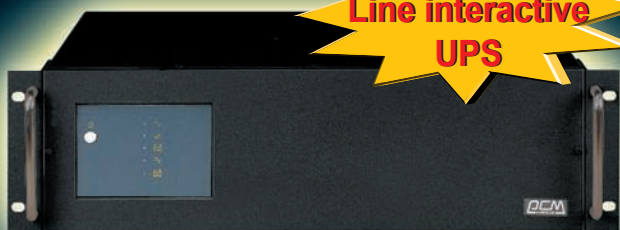
- ¥ Line interactive design
- ¥ Fully digitized microprocessor controlled
- ¥ Tel/modem internet surge suppression
- ¥ Boost and buck AVR
- ¥ EMI/RFI noise filter
- ¥ Surge protection output for critical load
- ¥ On-line, back up, battery fail status LED
- ¥ Lightning and surge protection
- ¥ Short circuit and overload protection
- ¥ 50/60Hz frequency auto sensing
- ¥ Advanced battery management (ABM)
- ¥ Energy saving (UPS sleep mode)
- ¥ Smart RS-232 communication port
- ¥ AVR boost & buck LED \*
- ¥ Cold start (DC power on)
- ¥ Automatically charging when UPS off
- ¥ History record of power failure events
- ¥ Schedule shutdown & reboot
- ¥ Back up, on-line, battery status, power status display by software
- ¥ Hot swappable battery by users \*

\* features available on 1200VA and up models



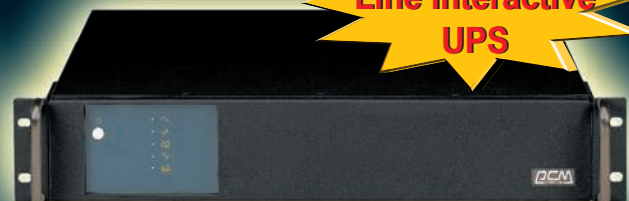
**"1U"**  
**Line interactive**  
**UPS**

*KIN-600/1000VA (1U)*



**"3U"**  
**Line interactive**  
**UPS**

*KIN-2200VA/3000VA (3U)*



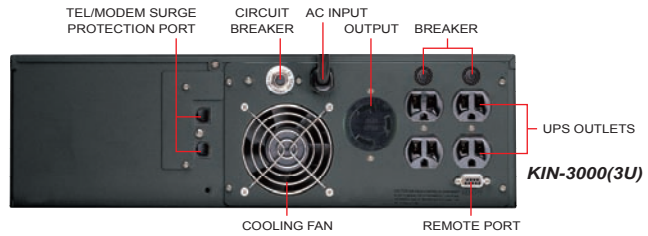
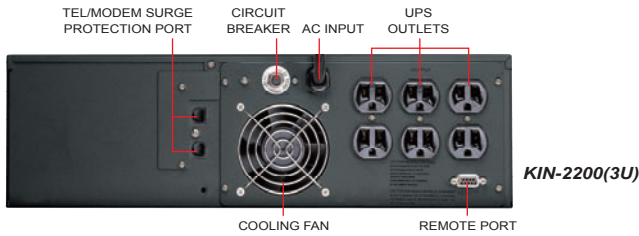
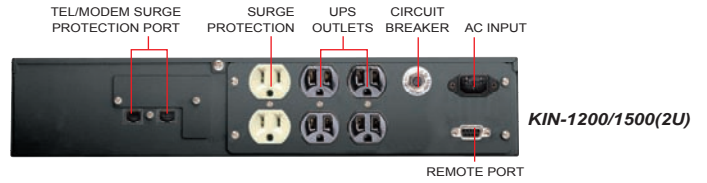
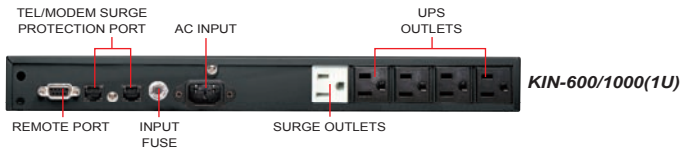
**"2U"**  
**Line interactive**  
**UPS**

*KIN-1200/1500VA (2U)*



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## SPECIFICATION

MODEL		KIN-600AP RM	KIN-1000AP RM	KIN-1200AP RM	KIN-1500AP RM	KIN-2200AP RM	KIN-3000AP RM	
INPUT	Capacity	600VA	1000VA	1200VA	1500VA	2200VA	3000VA	
	(On Battery)							
	Surge Protection outlets	500VA	500VA	500VA	500VA for 220~240V models only)	N/A	N/A	
	Voltage	+/-25% at line input						
	Frequency	50 or 60 Hz +/-10% (auto sensing)						
OUTPUT	Voltage (on battery)	Simulated sine wave at 100V or 110V/115V/120V or 220V/230V/240V +/-5%						
	Frequency (on battery)	50 or 60 Hz +/-0.5%						
	Voltage Regulation (AVR)	AVR automatically increase output voltage 15% above input voltage if -9% to -25% of nominal. AVR decrease output voltage 13% below input voltage if +9% to +25% of nominal						
	Transfer Time	2/4 milliseconds, including detection time						
	PROTECTION and FILTERING	Spike Protection	320 Joules					
EMI/RFI filter		10dB at 0.15MHz, 50dB at 30MHz						
Overload Protection		UPS automatic shutdown if overload exceeds 110% of nominal at 60 seconds and 130% at 3 seconds						
Unit Input		For overload & Short circuit protection						
10Base - T Cable Port		Network (UTP, RJ-45) compatible jacks						
Short Circuit		UPS output cut off immediately or input circuit breaker protection						
BATTERY	Type	Sealed, Maintenance-free lead acid						
	Typical Recharge Time	8 hours (to 90% of full capacity)						
	Protection	Automatic self-test & discharge protection, Replace battery indicator						
	Back-up Time (a PC with 15" monitor)	30 - 40 minutes	50 - 60 minutes	60 - 70 minutes	70 - 80 minutes	85 - 95 minutes	95 - 105 minutes	
PHYSICAL	Net Weight Kg (lbs)	9.35 (20.5 lb)	11.5 (25.3 lb)	16.3 (35.9 lb)	16.3 (35.9 lb)	28.4 (62.6 lb)	32.7 (71.9 lb)	
	Shipping Weight Kg (lbs)	11.0 (24.2 lb)	13.0 (28.6 lb)	19.3 (42.5 lb)	19.3 (42.5 lb)	31.1 (68.5 lb)	36.3 (79.8 lb)	
	Dimension (mm) W x D x H	483 x 362 x 44 (1U)		483 x 357 x 84 (2U)		483 x 351 x 130 (3U)	483 x 485.5 x 130 (3U)	
ALARM	Battery Back-up	Slow beeping sound (about 0.47Hz)						
	Battery Low	Rapid beeping sound (about 1.824Hz)						
	Overload	Continue beeping sound						
INTERFACE	RS-232C port Interface	RS-232C Bi-directional communication port						
ENVIRONMENT	Ambient Operation	3,500 meters max. elevation, 0-95% humidity non-condensing 0 - 40 deg C						
	Audible Noise	< 40dBA (1meter from surface)						
	Storage Condition	15,000 meter max						

OUTPUT RECEPTACLE OPTION



Available Through:



# KING CS Series

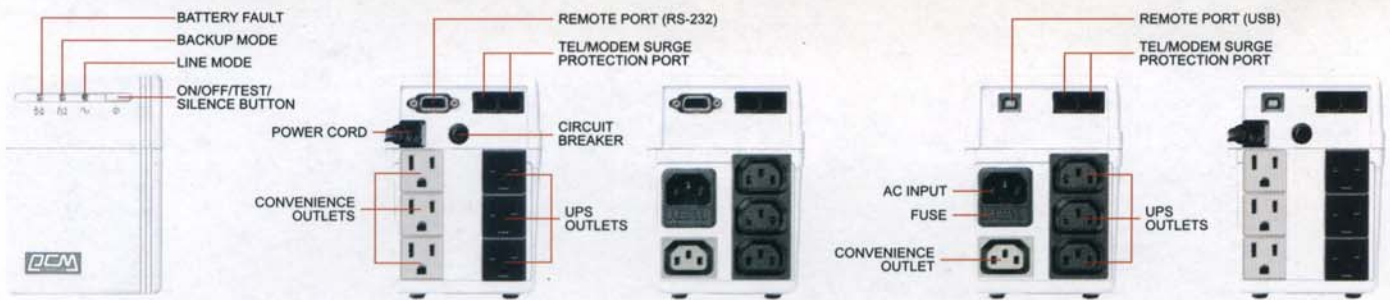
*Complete Protection for Internet Computers and Advanced Servers*

- Line interactive design
- Boost and buck AVR
- Back up, on-line, battery status LEDs display
- Fully digitized microprocessor controlled
- Smart RS-232 or USB communication port
- Lightning and surge protection
- Short circuit and overload protection
- 50/60Hz frequency auto sensing
- Tel/modem internet spike protection
- Smart power management with software
- Advanced battery management (ABM)
- Energy saving (UPS sleep mode)
- Cold start (DC power on)



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## SPECIFICATION

MODEL		KIN-425CS	KIN-525CS	KIN-625CS	KIN-825CS
INPUT	Capacity	425VA / 255W	525VA / 315W	625VA / 375W	825VA / 495W
	Voltage	100V,110V,115V,120V,220V,230V,240V +/- 25% at line input			
	Frequency	50 or 60 Hz +/- 10% (auto sensing)			
OUTPUT	Voltage (on battery)	Simulated sine wave at 100V,110V,115V,120V,220V,230V,240V +/- 5%			
	Frequency (on battery)	50 or 60 Hz +/-1%			
	Voltage Regulation (AVR)	AVR automatically increase output voltage 15% while nominal -9% to -25% utility voltage be connected AVR automatically decrease output voltage 13% while nominal -9% to -25% utility voltage be connected			
	Transfer Time	2 / 4 milliseconds, including detection time			
PROTECTION and FILTERING	Spike Protection	480 Joules, 2ms			
	Unit Input	Circuit breaker for overload & short circuit protection			
	Overload Protection	UPS automatic power off if overload exceeds 110% of nominal at 60 seconds and 130% at 3 seconds			
	10 Base-T Cable Port	Network (UTP, RJ-45) compatible jacks			
BATTERY	Short Circuit	UPS output cut off immediately or input circuit breaker protection			
	Type	Sealed, maintenance-free lead acid batteries with 3-6 years typical lifetime			
	Typical Recharge Time	6 hours (to 90% of full capacity)			
	Protection	Auto discharge protection			
PHYSICAL	Back-up Time (a PC with 15" monitor)	10 - 20 minutes	20 - 30 minutes	25 - 35 minutes	30 - 40 minutes
	Net Weight Kg (lbs)	5.65 (12.43)	6.44 (14.17)	6.5 (14.3)	6.6 (14.52)
PHYSICAL	Shipping Weight Kg (lbs)	5.95 (13.09)	6.94 (15.27)	7.0 (15.4)	7.1 (15.62)
	Dimension W x D x H mm	97 x 320 x 135 (3.8" x 12.5" x 5.3")			
	Input Inlet	NEMA 5-15P / IEC 320 power inlet			
	Receptacles	NEMA 5-15R (UPS outlets x 3, Convenience outlets x 3)			
		IEC 320 female appliance coupler (UPS outlets x 3, Convenience outlet x 1)			
ALARM	Battery Back-up	Slow beeping sound (about 0.47 Hz)			
	Battery Low	Rapid beeping sound (about 1.824 Hz)			
	Overload	Continuously beeping sound			
INTERFACE	RS-232 (serial) / USB	Detect battery low, Schedule UPS on/off, AC input/output power status display.			
ENVIRONMENT	Ambient Operation	3,500 meters max, elevation. 0-95% humidity non-condensing, 0-40 deg C			
	Audible Noise	<40dBA (1 meter from surface)			
	Storage Condition	15,000 meter max. elevation			

### UPSMON plus Power Management Software



Available Through: