

3-Phase On-line UPS



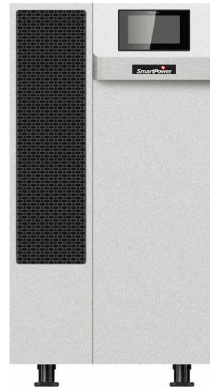
APUS III series 20-80K/KS



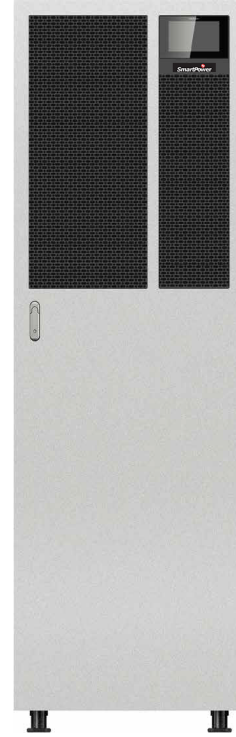
20KS/30KS/40KS



60KS/80KS



20/30/40K STD (with internal bat)



60/80K STD (with internal bat)

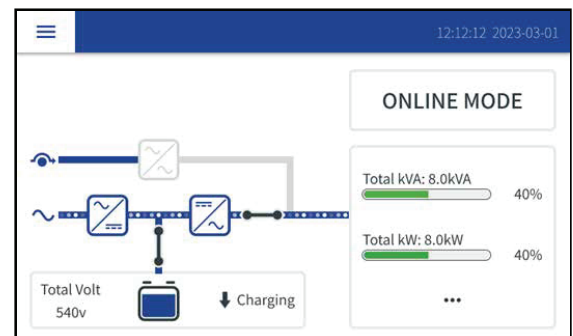
Key Features

- Three-step IGBT PWM control technology, online mode efficiency up to 96%, ECO mode efficiency up to 99%.
- Output power factor 1, provides more active power.
- Higher density reduces up to 50% of the footprint.
- Powerful charger declines the charging time dramatically.
- Predictable component lifetime enhances system reliability.
- Optimized battery management (OBM) technology, extended batteries life by 50%.
- Battery 32-44 adjustment provides a more flexible battery configuration (20-80KS)
- A 5-inch color touch LCD with 10 languages provides a user-friendly interface for operation.
- Robust design with default dust-proof filter & PCBA coating
- Standard 3-4mins backup time @100% load (20-80K STD)
- Easy slide & maintenance battery module (20-80K STD)
- Up to 4 EBMs connections for extend backup time
- Pre-install battery and without pre-install battery options for flexible configuration and stock management
- Standard dustproof filter, commit with dustproof UL 900
- All PCBA conformal coating reduces the risk of internal short.
- Equipped with input, output, bypass, and maintenance switch, providing a more flexible deployment.
- Dual input & Single input adaptive, meet diverse utility power conditions.
- Significantly reduce footprint compared to the previous generation.
- Compatible with lithium battery, maximum 80A powerful charging ability, release lithium battery ultimate performance, and easily achieves up to 500+cycle life of the battery.
- Regular UPS could provide a maximum 0.2C charging ability, 5h fully charge the lithium battery.
- APUS III could provide a maximum 80A charging current, 1h fully charge the lithium battery, Release lithium battery ultimate performance.
- APUS III provide end of lifetime warning to remind the customer to the UPS.
- Proactive warnings reduce the risk of UPS failure, enhance reliability, and increase service sales and revenue.

- Improve reliability in a heavy dusty environment.
- Regular Master-slave parallel solution might cause a single point of failure.
- APUS III OPT ensures UPS continued output without parallel cable, allows one-by-one maintenance without extra maintenance bypass switch.
- No Master-slave in the parallel system, eliminates single point of failure, enhances reliability.
- APUS III provides separate battery solution and common battery solution.
- Saving 50% cost more by common battery solution.

Convenient operation and maintenance management

Full-color 5" touch screen with a cool LED status indicator, which is convenient for users to check the running status of the equipment and operation and maintenance operations.



The Sun Power Co.,Ltd.

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Model	APUS III	20K/KS	30K/KS	40K/KS	60K/KS	80K/KS
Capacity	Power rating KVA	20	30	40	60	80
	Power rating KW	20	30	40	60	80
Input	Topology	PWM, IGBT based				
	Rated voltage	230/400Vac nominal (220/380, 240/415 Selectable)				
	Voltage range	-50% ~ +20%, depends on load percentage				
	Input power factor	0.99				
	THD(i)	<3%				
	Rated Frequency	50/60Hz auto sensing				
	Frequency range	42-72Hz				
Output	Output Transformer	Default				
	Power factor	1				
	Efficiency	Up to 96% in online mode; >99% in ECO mode				
	Output voltage	230/400Vac nominal (220/380, 240/415 Selectable)				
	Output frequency	50/60Hz				
	Overload Capacity	20KS-80KS model: 102~110% load 60 min, 111~125% load 10min, 126~150% load 1min, >150% load 150msec 20-80K battery kit model and STD internal battery model: depends on battery configuration.				
	THDV	<2% for Linear load				
	Unbalanced load	100%				
Bypass	Crest factor	3:1				
	Internal static switch	Standard				
	Bypass voltage	400Vac (+/- 15%)				
Battery	Maintenance bypass switch	Standard				
	Battery type	20KS-80KS model: VRLA/NiCd/Lithium. 20-80K battery kit model and STD internal battery model: VRLA.				
	Backup time	20KS-80KS model: Varies from battery capacity and load situation. 20-80K battery kit model: Depends on battery configuration. 20-80K STD internal battery model: 3.5mins @ 100% load.				
	Battery PCS	20KS-80KS model: depends on battery configuration. 20-80K battery kit model: 20-40K: up to 2*40 7Ah/9Ah max 60-80K: up to 4*40 7Ah/9Ah max 20-80K STD internal battery model: 20K: 1*40*9Ah 30K: 2*32*9Ah 40K: 2*40*9Ah 60K: 3*40*9Ah 80K: 4*40*9Ah				
	Charger current	20A/30A/40A/60A/80A max.				
	Battery Voltage	20KS-80KS model and 20-80K battery kit model: 432VDC default, 320V-607V 20-80K STD internal battery model: depends on internal battery.				
Communication	Recharge time	8 hours to 90%				
	Interface	2x Mini-Slot, 1x Emergency Power Off input (NC or NO), 3x Building Alarm inputs, 1x RS232				
Dimension	Com cards (optional)	NMC & CMC cards, relay card, EMP				
	Running temperature	UPS:0-40°C; Battery: 25°C				
	Storage	-25 ~ 55°C without battery; +15 ~ 25°C with battery				
	Humidity	5% ~ 95%				
	Elevation	No derating < 2000m				
	Noise level	<=65dBA at 1m @ 75% Load (ISO7779)				
Regulation	W*D*H (mm)	20KS-80KS model: 20-40KS 330*699*521mm; 60-80KS 331*773*972mm 20-80K battery kit model and STD internal battery model: 20-40K 500*859*887mm; 60-80K 500*859*1870mm (TBD)				
	Safety	IEC/EN 62040-1				
	EMC	IEC/EN 62040-2				
	Performance	IEC/EN 62040-3				
	Certification	CE				

Initial Spec. Due to continuous product improvement, specifications are subject to change without notice.



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