

APUS III 20-80K



Key features

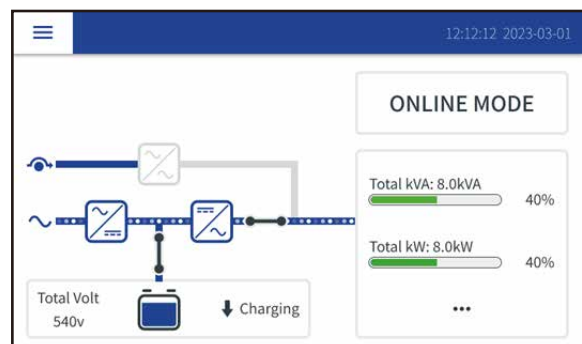
- Three-step IGBT PWM control technology, online mode efficiency up to 96%, ECO mode efficiency up to 99%.
- Output power factor 1, provides more active power.
- Higher density reduces up to 50% of the footprint.
- Powerful charger declines the charging time dramatically.
- Predictable component lifetime 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 3.5mins backup time @100% load (20-80K STD)
- Easy slide & maintenance battery module (20-80K STD)
- Up to 4 EBCs connection for longer backup time configuration (for 20-80KS long run model)
- Pre-install battery and without pre-install battery options for flexible configuration and stock management

Typical application

- Data center
- Telecom
- Financial services
- Security and surveillance system
- Automatic control system
- Building management
- Manufacturing process control
- Petro chemical industry

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.



Product specification

Model	APUS III	20kVA	30kVA	40kVA	60kVA	80kVA
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	40-72Hz				
Output	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: depends on battery configuration. 20-80K STD internal battery model: depends on battery configuration.				
	THDV	<2% for Linear load				
	Unbalanced load	100%				
Bypass	internal static switch	Standard				
	Bypass voltage	400Va±10% (maximum ±20%)				
	Maintenance bypass switch	Standard				
Battery	Battery type	20KS-80KS model: VRLA/NiCd/Lithium. 20-80K battery kit model: VRLA. 20-80K 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	20KS-80KS model: depends on battery configuration. 20-80K battery kit model: 20-40k: up to 2*40 7Ah/8Ah/9Ah max 60-80k: up to 4*40 7Ah/8Ah/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: 432VDC default, 320V-607V 20-80K STD internal battery model and battery kit model: 320V-552V				
Communication	Interface	2x Intelligent-Slot, 1x Emergency Power Off input, 3x Building Alarm inputs, 1x RS-232, 1x USB				
	Com cards (optional)	NMC & CMC cards, relay card, EMP				
Environment	Running temperature	UPS: 0-40°C; Battery: 25°C				
	Storage	-25 ~ 55°C without battery; +15 ~ 25°C with battery				
	Humidity	5% ~ 95%				
	Altitude	≤1000m without derating				
	Noise level	<=65dBA at 1m @ 75% Load (ISO7779)				
Dimension	W*D*H (mm)	20KS-80KS model: 20k/30k/40k 330*700*525mm; 60k/80k 330*772*977mm 20-80K battery kit model and STD internal battery model: 20k/30k/40k: 500*859*887mm 60k/80k: 500*846*1500mm				
Regulation	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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