

LIGHTING THE WORLD WITH GREEN ENERGY



PRODUCT BROCHURE

APK Series

Online Transformerless UPS Series

Power range: 200~1200kVA (3-Level PF: 1.0)

Mode: 3 phase input and 3 phase output



Features

High Reliability

- ◆ Wide input voltage range, line voltage range is 138-485V, UPS will derate to 40% when input voltage is below 305V
- ◆ Thickened conformal coating, applicable for harsh environment such as high heat, high humidity, dust

Green and Power Saving

- ◆ High input power factor, it is up to 0.99
- ◆ 3-level topology design, online efficiency up to 96%
- ◆ THDi<3% (100% linear load)
- ◆ The UPS will work in sleeping mode when the load is very small

LBS Function

- ◆ LBS function can realize 2 independent UPS system work in synchronization, and it enhances the reliability of the system

Compatible with Generator

- ◆ Power Walk In function, it can reduce the start current impact to system, and it can reduce the capacity of generator

VRLA & Lithium Battery Supportable

- ◆ Compatible with VRLA or lithium battery

Parallel Redundancy Function

- ◆ Support parallel expanded operation: maximum is 6 units
- ◆ Support sharing batteries for the UPS in parallel

Strong Load Capability*

- ◆ Output power factor is 1.0, UPS can supply power to 100% unbalanced load
- ◆ High adaptability for load, it can connect full inductive load or capacitive load

Intelligent Management

- ◆ With 7 inches (Standard) and 10 inches (Optional) colorful touch LCD screen
- ◆ Support recording and exporting history logs and fault logs
- ◆ Support SNMP, RS232, RS485, BMS, Dry contact interface

*This series of products are not compatible with energy feedback loads, including but not limited to CT machines in the medical field, cutting machines in the semiconductor industry, and all types of elevators as well as other motor-driven equipment that incorporate energy feedback inverters at the front end.

Technical Specifications

MODEL		AP200K 200k	AP250K 250k	AP300K 300k	AP400K 400k	AP500K 500k	AP600K 600k	AP800K 800k	AP1000K 1000k	AP1200K 1200k
Capacity (VA/W)										
Max. Parallel Number		6								
INPUT										
Nominal Voltage (Vac)		380/400/415 (3Ph+N+PE)								
Operating Voltage Range (Vac)		138~305 for 40% Load; 305~485 for 100% Load;								
Power Factor		≥0.99								
Harmonic Distortion (THDi)		≤3% (100% Linear load)								
Bypass Voltage Range (Vac)		Max. voltage: 220: +25% (Optional +10%, +15%, +20%) 230: +20% (Optional +10%, +15%) 240: +15% (Optional +10%)								
		Min. voltage: -45% (Optional -10%, -15%, -20%, -30%)								
Bypass Frequency Range (Hz)		50/60±10%								
OUTPUT										
Nominal Voltage (Vac)		380/400/415 (3Ph+N+PE)								
Voltage Regulation		±1%								
Output Frequency (Hz)		Line mode: Synchronize with input, when the input frequency >±10% (±1%/±2%/±4%/±5% optional), output 50/60 (±0.1); Bat. mode: (50/60±0.1%)								
Crest Factor		3:1								
Harmonic Distortion (THDv)		≤2% with linear load; ≤4% with nonlinear load								
Overload	Inverter mode	≤110% 60min, ≤125% 10min, ≤150% 1min, >150% 1.2s shut down inverter								
	Bypass mode	30°C: 135% for long term; 40°C: 125% for long term; >1000%, 100ms								
EFFICIENCY*										
AC Mode		Up to 96%								
ECO Mode		Up to 99%								
HECO Mode		Up to 99%								
BATTERY										
Battery Type		VRLA/Li-ion								
Battery Voltage (Vdc)		360~600								
Charging Current (Max.)(A)		80	100		140	180	200	280	360	400
MANAGEMENT										
LCD Display		Line voltage, Bypass Mode, Battery Low, Battery Fault, Overload & UPS Fault								
Alarm		Line Failure, Battery Low, Overload, System Fault								
Communication Ports		RS232, RS485, Parallel, LBS, BMS, Dry contact port, Relay card (Optional), SNMP card (Optional), Battery temperature sensor (Optional)								
SYSTEM FEATURES										
Overheat		Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately								
Self-diagnostics		Upon Power On and Software Control								
Generator Input		Support								
EPO		Shut down UPS immediately								
ENVIRONMENTAL										
Operating Temperature (°C)		0~40								
Storage Temperature (°C)		-25~55								
Humidity Range		0~95% (Non condensing)								
Altitude (m)		<1000, derating required when >1000								
Noise Level (dB)		<63	<65	<70	<70	<73	<74			
PHYSICAL										
Dimension WxDxH (mm)(S/F)		600×850×2000				1200×850×2000		2000×850×2000		2200×850×2000
Weight (kg)		406	440	460	548	965	1060	1422	1658	1980
STANDARDS										
Safety		IEC/EN 62040-1, IEC/EN 62477-1								
EMC		IEC/EN 62040-2 (IEC 61000-2-2, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11)								
Performance		IEC 62040-3: 2021, EN IEC 62040-3: 2021								

*This efficiency is a typical value measured under standard test conditions and may vary slightly depending on the actual operating environment and conditions.

S : Without or only with one maintenance bypass switch

F : With mains, bypass, maintenance bypass and output switches

1. Specifications are subject to change without prior notice

2. Data above are typical values for reference only, not as a basis for engineering design



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