

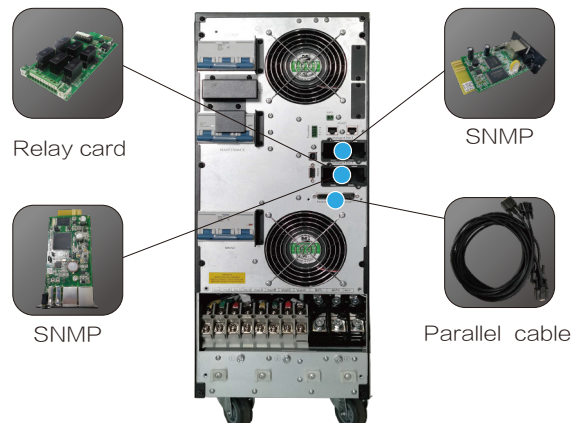
3:3 phase PF 0.9 (PF 1.0 optional)

Power range: 10kVA~40kVA



Features

- High power density design
- N+X parallel redundancy, support maximum 4 units in parallel
- Online double conversion with DSP control
- Input current harmonic: <3%
- Wide input voltage range: 208~478Vac
- Wide input frequency range 40~70Hz
- Optimization battery group, the quantity of battery
 - 10~30kVA: 16/18/20pcs (30~50pcs is optional)
 - 40kVA: 30~50pcs
- Maximum charging current up to 20A (Settable)
- Dual input source (optional for standard unit)
- Colorful 2.4 inch TFT LCD display and 7 inch LCD display LCD are optional
- Versatile LCD human-computer interface
- Generator compatible
- ECO mode operation for energy saving
- Intelligent fan speed regulation
- Self-testing when UPS startup
- 50/60Hz frequency converter mode
- The output can meet 100% unbalanced load
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm
- Multiple communication interface: USB, RS232, RS485, Parallel port, Dry contact, Intelligent slot, SNMP card (Optional), Relay card (Optional), Battery temperature sensor (Optional)



MODEL	YAK-1033	YAK-1533	YAK-2033	YAK-3033	YAK-4033
Capacity	10kVA / 9kW	15kVA / 13.5kW	20kVA / 18kW	30kVA / 27kW	40kVA / 36kW
	10kVA / 10kW	15kVA / 15kW	20kVA / 20kW	30kVA / 30kW	40kVA / 40kW

INPUT

Nominal voltage	380/400/415Vac (3Ph+N+PE)
Operating voltage range	305~478Vac(Full load); 208~478Vac(50% load)
Operating frequency range	40~70Hz (50/60Hz Auto-Sensing)
Power factor	≥0.99
Bypass voltage range	Max.voltage:220V:+25% (Optional+10%,+15%,+20%) 230V:+20% (Optional+10%,+15%) 240V:+15% (Optional+10%) Min.voltage:-45% (Optional-20%,-30%)
Frequency protection range	50/60Hz ± 10%
ECO range	Same as bypass
Harmonic distortion (THDI)	≤3% Linear load

OUTPUT

Output voltage	380/400/415Vac (3Ph+N+PE)	
Voltage regulation	± 1%	
Power factor	0.9	
Output Frequency	Line Mode ± 1%/ ± 2%/ ± 4%/ ± 5%/ ± 10% of the rated frequency (Optional) Bat. Mode 50/60(± 0.1%)Hz	
Transfer time	AC mode to Bat.Mode	0ms
	Inverter to Bypass	0ms
Output waveform	Pure Sinewave	
Crest factor	3:1	
Harmonic distortion (THDv)		≤2% Linear load
		≤5% Non linear load
Overload	AC mode	≤ 110%,last 60min; ≤ 125%,last 10min; ≤ 150%,last 1min; > 150% turn to bypass Immediately
	Bat.mode	≤ 110%,last 10min; ≤ 125%,last 1min; ≤ 150%,last 5s; > 150% turn to bypass Immediately

EFFICIENCY

Efficiency	up to 93.5%	up to 94.5%
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BATTERY

Battery voltage	Standard unit	± 120Vdc (20pcs 12V9Ah); (20pcs 12V7Ah, 2x20pcs 12V7/9Ah optional)	± 120Vdc (2x20pcs 12V9Ah) (2x20pcs 12V7Ah optional)	± 120Vdc (3x20pcs 12V9Ah) (3x20pcs 12V7Ah optional)	± 180Vdc (2x30pcs 12V9Ah) (2x30pcs 12V7Ah optional)
	Long run unit	10~30kVA: ± 96/108/120Vdc; battery quantity(16~20pcs, 16pcs default, Standard unit and 20pcs no power derating;18pcs output power factor 0.8/0.9;16pcs output power factor 0.7/0.8;) 10~30kVA (Optional): ± 180/192/204/216/228/240/252/264/276/288/300Vdc (30/32/34/36/38/40/42/44/46/48/50pcs optional)			40kVA: ± 180/192/204/216/228/240/252/264/276/288/300Vdc(30/32/34/36/38/40/42/44/46/48/50pcs)
Charge Current (charge current can be set according to battery capacity installed)	Standard unit	1.35A (2.7Aoptional)	2.7A		4.05A
	Long run unit	14A Max.	16A Max.	18A Max.	20A Max.

PHYSICAL

Dimension	Standard unit	250 x 900 x 868			
W × D × H (mm)	Long run unit	250 x 580 x 655			
Net weight (kg)		129/35	186/39	187/40	236/43

ENVIRONMENTAL

Operating temperature	0~40°C			
Storage temperature	-25~55°C (No battery)			
Humidity range	0~95% (Non condensing)			
Altitude	<1500m,derating required when>1500m			
Noise level	<55dB	<58dB	<61dB	<64dB

STANDARDS

Safety	IEC/EN62040-1,IEC/EN62477-1
EMC	IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4,IEC61000-4-5,IEC61000-4-6,IEC61000-4-8

Specifications are subject to change without prior notice.