

YAK33 Series

Mode: 3 phases input and 3 phases output

Power range: 50kVA~200kVA



High reliability design

- Wide input voltage range 138~485Vac (Phase voltage 80~280Vac), no derating when input voltage \geq 305Vac.

Power saving

- High input power factor, it can be up to 0.99.
- Three level inverter topology, the efficiency can be up to 96%.

Parallel redundancy function

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

Flexible battery configuration

- Batteries number of each group can be selected from 30 pieces to 50 pieces.
- Large charging current can meet the requirement of long time backup.

Strong load capacity

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

Compatible with generator

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

LBS function

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

Intelligent management

- Support RS485, RS232, SNMP, dry contact card.



Technical Specifications:

MODEL	YAK5033	YAK6033	YAK10033	YAK12033	YAK15033	YAK16033	YAK18033
Capacity (VA/Watts)	50k / 50k	60k / 60k	100k / 100k	120k / 120k	150k / 150k	160k / 160k	180k / 180k

INPUT

Nominal voltage	380/400/415Vac, (3Ph+N+PE)						
Operating voltage range	138~485Vac for 40%load; 305~485Vac for full-load						
Operating frequency range	40~70Hz						
Power factor	≥0.99						
Hammonic distortion (THDi)	≤3% (100% linear load)						
Bypass voltage range	220Vac Max.voltage: +25%(optional +10%,+15%,+20%) 230Vac Max.voltage: +20%(optional +10%,+15%) 240Vac Max.voltage: +15%(optional +10%) Min. voltage: -45% (optional -20%,-30%) Frequency synchronize tracing range: ± 10%						
Generator input	Support						

OUTPUT

Output voltage	380/400/415Vac (3Ph+N+PE)						
Voltage regulation	± 1%						
Power factor	0.9 & 1						
Output frequency	1.Line Mode: synchronize with input; when input frequency > ± 10% (± 1%/ ± 2%/ ± 4%/ ± 5% optional), output (50/60 ± 0.1)Hz. 2.Battery Mode:(50/60 ± 0.1)Hz						
Crest factor	3:1						
Hammonic distortion (THDv)	≤ 1% with linear load ≤ 4% with non linear load						
Efficiency	96%						

BATTERY

Battery voltage	Optional Voltage: ± 180V/ ± 192V/ ± 204V/ ± 216V/ ± 228V/ ± 240/ ± 252/ ± 264/ ± 276/ ± 288/ ± 300Vdc(30/32/34/36/38/40/42/44/46/48/50pcs optional); 360Vdc~600Vdc (30~50 pcs, 36 pcs default, 36 to 50 pcs output power factor 1.0; 32~34 pcs output power factor 0.9; 30 pcs output power factor 0.8;)						
Charge Current(A) (charge current can be set according to battery capacity installed)	Max.current 20A		Max.current 40A			Max.current 60A	

SYSTEM FEATURES

Transfer time	Utility to Battery : 0ms; Utility to bypass: 0ms						
Overload	INV Mode	110% overload for 60 min; 125% overload for 10 min; 150% overload for 1 min					
	Bypass Mode	135% overload for long time; >1000% overload for 100 ms					
Backfeed protection	Support						
Alarm	Overload, utility abnormal, UPS fault, battery low, etc.						
Protection	Short circuit, overload, over temperature, battery low, fan fault alarm.						
Remote LCD	Support						
Communication	USB, RS232, RS485, Parallel port, Coupler dry contact, Intelligent slot, LBS, SNMP card (optional), Relay card (optional)						

ENVIRONMENTAL

Operating temperature	0°C ~ 40°C						
Storage temperature	25°C ~ 55°C (no battery)						
Humidity range	0 ~ 95% (non condensing)						
Altitude	< 1500m.W/hen>1500m						
Noise level	<55dB	<58dB	<60dB	<62dB	<63dB	<64dB	

PHYSICAL

Dimension D×W×H (mm)	828x250x868			850x442x1200			
Net weight (kg)	80	83	147	152	180	190	200

STANDARDS

Safety	IEC/EN62040-1,IEC/EN60950-1						
EMC	IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4,IEC61000-4-5,IEC61000-4-6,IEC61000-4-8						

Specifications subject to change without prior notice.