

GOMEH

N+X Parallel redundancy low frequency online UPS

YAN 33 Series

N+X parallel redundancy, up to 8 sets



ISO9001 : 2015
ISO14001 : 2015
ISO45001 : 2018

Technical Specifications

1. Rectifier

1) Input parameters

Model	10kVA	20kVA	30kVA	40kVA	60kVA	80kVA	100kVA	120kVA	160kVA	200kVA	250kVA	300kVA	400kVA	500kVA
Nominal capacity (kW)	9	18	27	36	54	72	90	108	144	180	225	270	360	450
Max. single-phase input current (A)	19	38	57	76	114	152	190	228	304	379	475	570	760	950
Working mode and principle	On-line power supply, static bypass switch (uninterrupted switching), dual conversion technology, output power completely isolated													
Input power factor	0.8/0.9 (12 pulses) /0.95 (plus active filter)													
Number of phase	Three phase + N + G													
Nominal voltage	415VAC $\pm$ 25%													
Nominal frequency	50/60Hz $\pm$ 10%													
Input current harmonics	<5%													
Soft start	0-100% 5sec													

2) Output parameters

Model	10kVA	20kVA	30kVA	40kVA	60kVA	80kVA	100kVA	120kVA	160kVA	200kVA	250kVA	300kVA	400kVA	500kVA
Max. output voltage (Vdc)	432V													
Charging current	Microcomputer set, 6~30A (adjustable)													

2. Battery

Model	10kVA	20kVA	30kVA	40kVA	60kVA	80kVA	100kVA	120kVA	160kVA	200kVA	250kVA	300kVA	400kVA	500kVA
Maximum discharge current (A)	28	56	85	113	169	225	282	338	461	576	700	840	1120	1400
Number of batteries in a set	12V 32pcs or 2V 192pcs													
Nominal battery voltage	384VDC													
Floating charge voltage	432VDC													
Charging current	6~30A (adjustable)													

3. Inverter

Model	10kVA	20kVA	30kVA	40kVA	60kVA	80kVA	100kVA	120kVA	160kVA	200kVA	250kVA	300kVA	400kVA	500kVA
Rated power (kW)	9	18	27	36	54	72	90	108	144	180	225	270	360	450
Number of phases	Single phase/three-phase+N+G					Three phase+N+G								
Nominal voltage	240/415VAC±1% (steady state)					415VAC±1% (steady state)								
Nominal frequency	50/60Hz ± 0.5% (battery mode)													
Output power factor	0.9													
Frequency stability	<± 0.5% (when out of sync)													
	<± 2% (when synchronized with mains power)													
Crest factor	3:1													
Output waveform	sine wave													
Total harmonic distortion	Linear load<3%; Nonlinear load<5%													
Dynamic load voltage transient	<±4%													
Instantaneous recovery time	<10ms													
Balanced load voltage	<±1%; < ± 5% (unbalanced load)													
Overload capacity	125% 30min, 150% 1min, >150% 300ms													
Inverter efficiency (100% load)	>93%								>96%					

4. Bypass

Model	10kVA	20kVA	30kVA	40kVA	60kVA	80kVA	100kVA	120kVA	160kVA	200kVA	250kVA	300kVA	400kVA	500kVA
Number of phases	Single phase/three-phase+N+G					Three phase+N+G								
Nominal voltage	415VAC±15%													
Nominal frequency	50/60Hz±10%													
Transfer time	0ms													

5. System

Model		10kVA	20kVA	30kVA	40kVA	60kVA	80kVA	100kVA	120kVA	160kVA	200kVA	250kVA	300kVA	400kVA	500kVA
Communication interface		RS232, RS485, dry contact, smart slot													
Operating temperature		0~40℃													
relative humidity		0%~90% (no condensation)													
Operating height		<1000m (power decreases by 1% for every 100m increase, up to 4000m)													
Cooling mode		Forced ventilation													
Noise		48~65dB								53~68dB					
MTBF		300000 hours													
Degree of protection		IP20													
Box color		Black (optional white)													
Input cable		Bottom/Back													
Easy to maintain		Front/Top/Side													
Dimension mm	D	685		760			800			880			1050		
	W	360		360			660			900			1550/2250 (12 pulses)		
	H	825		990			1550			1650			1900		
Reference weight (kg)		128	175	230	280	380	550	650	700	850	900	1050	1500	1700	1900
Input device		Terminal block													
Output device		Terminal block													

***The above parameters may be adjusted and changed, please refer to the real object.**