

AlphaUPS

YAL-M60/100-300kVA

YAL33100-M - 60kVA /2*100/120kVA

YAL33120-M – 60kVA / 2*120kVA

YAL33160-M - 60kVA /3*160/180kVA

YAL33200-M - 60kVA /4*200/240kVA

YAL33300-M - 60kVA /5*300kVA



With a 7-inch colour touch screen

Modular design with swappable battery package

Width input voltage range:line voltage range is 138-485V, UPS would be derating when input voltage is below 305V.

Monitor system for battery

High input power factor, it is up to 0.99.

Integrated IGBT module with improved performance and reduced size

Easy for installation and maintenance

Easy for power expansion and backup time expansion

Intelligent protection technology for safe and reliable hot swappable battery package of the system

Smart charging management system, Intelligently control the whole process of the charging and discharging, effectively improving the life time of the battery

Battery cold start

Friendly human machine interface with touch screen



UPS power cabinet	Cable Dimension				
	AC Input (mm ²)	BPS Input (mm ²)	AC Output (mm ²)	DC Input (mm ²)	Grounding (mm ²)
100	70	50	120	35	25
120	95	70	150	50	35
150	120	120	120	150	50
160	120	120	120	150	50
200	185	150	150	240	70
250	95*2	95*2	95*2	120*2	95
300	120*2	120*2	120*2	150*2	120

Model YAL Cabinet capacity			100kVA	120kVA	160kVA
Module 60kVA / (VAW)			60k /2*100/120k	60k / 2*120k	60k /3*160/180k
Input	Phase		3 Phase 4 Wires and Ground		
	Rated Voltage		380/400/415Vac		
	Voltage Range		138~485Vac ◆ At 40°C: The UPS works at full load when the voltage is 323~485Vac and is derated load when the voltage is 323~138Vac ◆ At 30°C: The UPS works at full load when the voltage is 305~485Vac and is derated load when the voltage is 305~138Vac		
	Frequency Range		40Hz-70Hz		
	Power Factor		≥0.99		
	Current THDi		≤3%(100% nonlinear load)		
	Bypass Voltage Range		Max.voltage: 220V:+25 %(optional +10%, +15%, +20%); 230V:+20 %(optional +10%, +15%); 240V:+15 %(optional +10%); Min. voltage:-45 %(optional -10%, -20%,-30%) Frequency protection range: ±10%		
Output	Phase		3 Phase 4 Wires and Ground		
	Rated Voltage		380/400/415Vac		
	Power Factor		1.0		
	Voltage Regulation		±1%		
	Frequency	Utility Mode	±1%/±2%/±4%/±5%/±10%of the rated frequency(optional)		
		Battery Mode	(50/60±0.1)Hz		
	Crest Factor		3:1		

	THD	$\leq 2\%$ with linear load $\leq 4\%$ with non linear load	
	Overload	Inverter overload capability: <ul style="list-style-type: none"> ◆ 105% < load \leq 110%: transfer to bypass mode after 60 min ◆ 110% < load \leq 125%: transfer to bypass mode after 60 min ◆ 125% < load \leq 150%: transfer to bypass mode after 60 min Bypass overload capability: <ul style="list-style-type: none"> ◆ Temperature $\leq 30^{\circ}\text{C}$, load $\leq 135\%$: run for a long time ◆ Temperature $\leq 40^{\circ}\text{C}$, load $\leq 125\%$: run for a long time ◆ 1000% load: run for 100 ms 	
Battery	Voltage	Optional Voltage: $\pm 180\text{V}/192\text{V}/\pm 204\text{V}/\pm 216\text{V}/\pm 228\text{V}/\pm 240\text{V}/\pm 252\text{V}/\pm 264\text{V}/\pm 276\text{V}/\pm 288\text{V}/\pm 300\text{Vdc}$ (30/32/34/36/38/40/42/44/46/48/50pcs optional) 384Vdc~480Vdc (30~40 pcs, 40 pcs define, 32 and 50 pcs no power derating; 30 pcs output power factor 0.8;)	
	charge current (A) max.		
Transfer Time		Utility to Battery : 0ms; Utility to bypass: 0ms	
Protection	Short Circuit	Hold Whole System	
	Overheat	Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately	
	Battery Low	Alarm and Switch off	
	Self-diagnostics	Upon Power On and Software Control	
	EPO	Shut down UPS immediately	
	Battery	Advanced Battery Management	
	Noise Suppression	Complies with EN62040-2	
Communication Interface		CAN, RS485, FE, LBS, Parallel, Relay card, SNMP card(optional)	

Environment	Operating Temperature	0°C~40°C
	Storage Temperature	-25°C~55°C
	Humidity	0~95% non condensing
	Altitude	< 1500m
Display	Audible & Visual	Line Failure, Battery Low, Overload, System Fault
	Status LED	UPS Fault, Alarm and normal
	Reading On the LCD	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage, parameter set, history record...
Other	Standard cabinet Dimensions(W*D*H)	600*850*1200
	Full cabinet Dimensions(W*D*H) (mm)	
Safety Conformance		CE,EN/IEC 62040-3,EN/IEC 62040-1-1

Model YAL Cabinet capacity		200kVA	300kVA
Module (VA/W)		60k /4*200/240k	60k /5*300k
Input	Phase	3 Phase 4 Wires and Ground	
	Rated Voltage	380/400/415Vac	
	Voltage Range	138~485Vac ◆ At 40°C: The UPS works at full load when the voltage is 323~485Vac and is derated load when the voltage is 323~138Vac ◆ At 30°C: The UPS works at full load when the voltage is 305~485Vac and is derated load when the voltage is 305~138Vac	

	Frequency Range		40Hz-70Hz
	Power Factor		≥0.99
	Current THDi		≤3%(100% nonlinear load)
	Bypass Voltage Range		Max.voltage: 220V:+25 %(optional +10%, +15%, +20%); 230V:+20 %(optional +10%, +15%); 240V:+15 %(optional +10%); Min. voltage:-45 %(optional -10%, -20%,-30%) Frequency protection range: ±10%
Output	Phase		3 Phase 4 Wires and Ground
	Rated Voltage		380/400/415Vac
	Power Factor		1.0
	Voltage Regulation		±1%
	Frequency	Utility Mode	±1%/±2%/±4%/±5%/±10%of the rated frequency(optional)
		Battery Mode	(50/60±0.1)Hz
	Crest Factor		3:1
	THD		≤2% with linear load ≤4% with non linear load
	Overload		Inverter overload capability: ◆ 105% < load ≤ 110%: transfer to bypass mode after 60 min ◆ 110% < load ≤ 125%: transfer to bypass mode after 60 min ◆ 125% < load ≤ 150%: transfer to bypass mode after 60 min Bypass overload capability: ◆ Temperature ≤ 30°C, load ≤ 135%: run for a long time ◆ Temperature ≤ 40°C, load ≤ 125%: run for a long time

		◆ 1000% load: run for 100 ms	
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) 384Vdc~480Vdc (30~40 pcs, 40 pcs define, 32 and 50 pcs no power derating; 30 pcs output power factor 0.8;)	
	charge current (A) max.		
Transfer Time		Utility to Battery : 0ms; Utility to bypass: 0ms	
Protection	Short Circuit	Hold Whole System	
	Overheat	Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately	
	Battery Low	Alarm and Switch off	
	Self-diagnostics	Upon Power On and Software Control	
	EPO	Shut down UPS immediately	
	Battery	Advanced Battery Management	
	Noise Suppression	Complies with EN62040-2	
Communication Interface		CAN, RS485, FE, LBS, Parallel, Relay card, SNMP card(optional)	
Environment	Operating Temperature	0°C~40°C	
	Storage Temperature	-25°C~55°C	
	Humidity	0~95% non condensing	
	Altitude	< 1500m	
Display	Audible & Visual	Line Failure, Battery Low, Overload, System Fault	
	Status LED	UPS Fault, Alarm and normal	
	Reading On the LCD	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage, parameter set, history record...	
Other	Standard cabinet Dimensions(W*D*H)	600*850*1200	
	Full cabinet		

	Dimensions(W*D*H) (mm)	
Safety Conformance	CE,EN/IEC 62040-3,EN/IEC 62040-1-1	