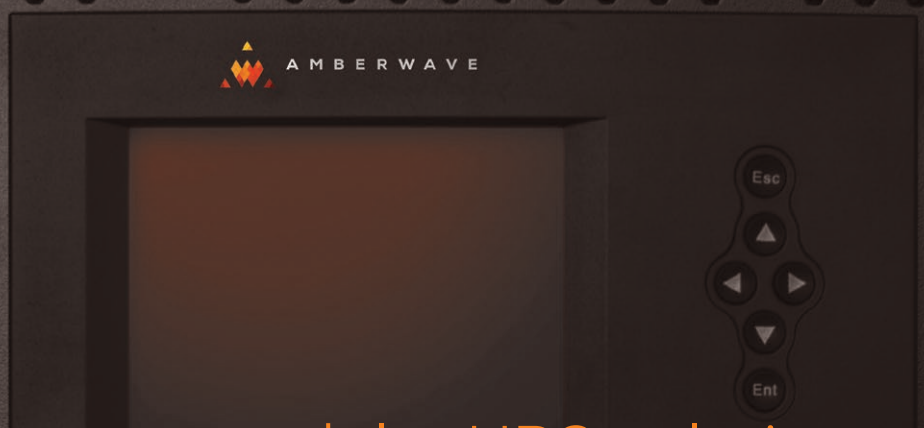
AMBERWAVE



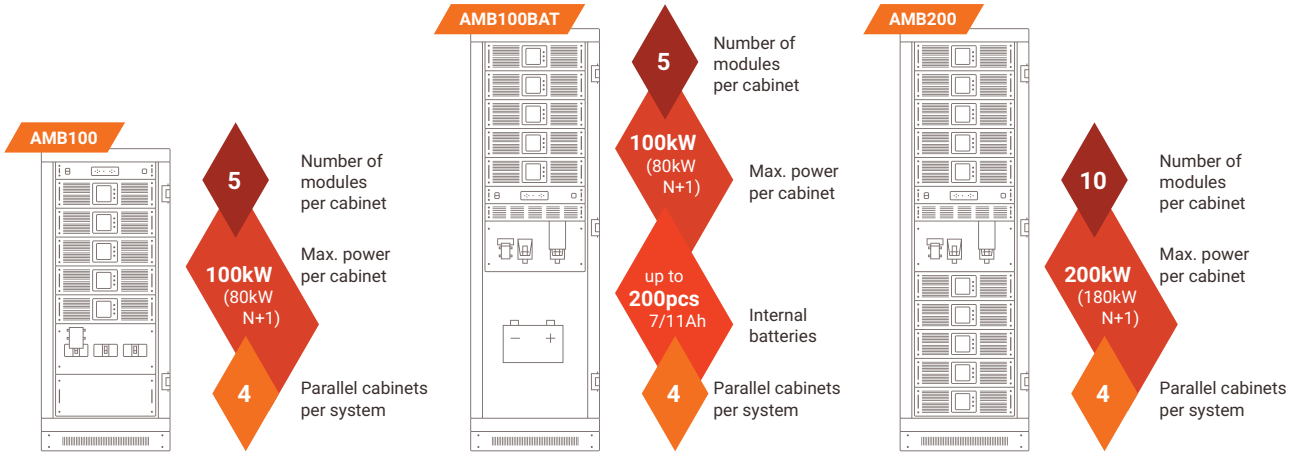
Amberwave modular UPS solutions offer full modularity using latest technologies to achieve highest efficiency and reliability ratings.

Each UPS power module contains all the hardware to function as an independent UPS unit.

Product features:

- Online double conversion technology
- Power range from 20 kW to 200 kW in a single frame
- 100 kW and 200 kW frames
- Internal battery option
- Parallel redundancy (N+X) per frame
- Up to four frames in parallel
- Hot - swappable power modules (replacement in full online mode)
- Efficiency up to 98%
- Input harmonic distortion less than 3%
- High power density
- Low total cost of ownership

Each power module is completely independent and shares no common components. Static bypass, rectifier, inverter, logic control, LCD display, control panel and battery charger are integrated in each power module. Output communication data (monitoring) is gathered and controlled by an independent hot-swappable monitoring module. Power module settings are auto adjusted by monitoring module and need no user interference in time of adding new or performing power module replacement.



Model			AMB100 100kW	AMB100BAT 100kW internal batteries	AMB200 200kW
Capacity	**UPS Cabinet**		**20-100kW**	**20-100kW**	**20-200kW**
	UPS Module		**20kVA/20kW**	**20kVA/20kW**	**20kVA/20kW**
Inputs	Phase		3 Phase 4 Wires and Ground		
	Rated Voltage		380/400/415Vac		
	Voltage Range		208~478Vac		
	Frequency Range		40Hz-70Hz		
	Power Factor		≥0.99		
	Current THDi		≤3%(100% nonlinear load)		
	Bypass Voltage Range		380V: +25%(optional +10%, +15%, +20%) 400V: +20%(optional +10%, +15%) 415V: +15 %(optional +10%) Min. voltage: -45% (optional -20%, -30%) Frequency protection range: ±10%		
	Generator Input		Support		
Output	Phase		3 Phase 4 Wires and Ground		
	Rated Voltage		380/400/415Vac		
	Power Factor		1		
	Voltage Regulation		±1%		
	Frequency	Utility Mode	±1%,±2%,±4%,±5%,±10% of the rated frequency (optional)		
		Battery Mode	(50/60±0.2%)Hz		
	Crest Factor		3:1		
	THD		≤2% with linear load ≤5% with non linear load		
Efficiency			Up to 98%		
Battery	Voltage		±192V\±204V\±216V\±228V\±240V DC; battery quantity (optional)		
	Charging Current	UPS Cabinet	30A max	30A max	60A max
		UPS Module	6A max	6A max	6A max
	charge current can be set according to battery capacity installed				
Transfer Time			Utility to Battery : 0ms; Utility to bypass: 0ms		
Protection	Overload	AC Mode	Load≤110%: last 60min, ≤125%: last 10min, ≤150%: last 1min, ≥150% turn to bypass mode immediately.		
		Bat. Mode	Load≤110%: last 10min≤125%: last 1min, ≤150%: Last 1S, ≥150% shut down UPS immediately.		
Communication Interface			RS232, RS485, Intelligent slot x 2, Dry Contact		
Environment	Operating Temperature		0°C~40°C		
	Storage Temperature		-25°C~55°C		
	Humidity		0°C~95% non condensing		
	Altitude		< 1500m		
Other	Unit Dimensions (D*W*H)	UPS Cabinet	840 x 600 x 1400 mm	1100 x 600 x 2000 mm	1100 x 600 x 2000 mm
		UPS Module	580 x 443 x 131 mm	580 x 443 x 131 mm	580 x 443 x 131 mm
	Weight (Kg)	UPS Cabinet	149	152	290
		UPS Module	20kVA/20kW	20kVA/20kW	20kVA/20kW
Standarts	Quality assurance, environment, health and safety		ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007		
	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		
	Marking		CE		

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