

UPS
Model:

YP-Defence

(100 kVA - 500 kVA)



Frequency	Phase	Power Factor	Power (VA)	Rated Voltage
45 - 65 Hz	3	1	(100 - 500 kVA)	400 VAC

Additional Information

- This UPS offers industry-leading efficiency, achieving up to 99% in ECO mode, resulting in significant energy savings, extended battery life, and a reduced environmental footprint. It enhances system reliability, operates quietly, and delivers a quicker ROI through lower energy costs. Its scalability and alignment with green initiatives make it an ideal choice for high-power applications.
- With a power factor of 1.0, it delivers efficient power to connected devices, cutting energy costs and minimizing heat generation. The UPS maximizes power utilization, ensuring critical equipment remains operational during outages, while its compatibility with sensitive devices provides stable, reliable power.
- Its compact design reduces commissioning and floor space costs, while lowering its environmental impact. With optimal input power utilization (PF 0.99) and low total harmonic distortion (TDHi <3%), it maintains efficient compatibility with upstream power sources, minimizing electrical disturbances and preventing malfunctions.
- The generator-friendly design enhances the lifespan and fuel efficiency of generators by regulating power fluctuations, stabilizing voltage and frequency, and enabling the use of smaller generators. This ensures a reliable power supply, business continuity, and cost savings.
- The dynamic charging mode, activated via firmware, offers versatility for long autonomy and quick charging applications. It uses any excess power not consumed by the load to rapidly charge batteries, including those with extended autonomy, and allows the charging currents to be tailored to the battery manufacturer's specifications.

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MODEL		YP-Defence 100kVA	YP-Defence 125kVA	YP-Defence 160kVA	YP-Defence 200kVA	YP-Defence 250kVA	YP-Defence 300kVA	YP-Defence 400kVA	YP-Defence 500kVA
POWER	kVA	100	125	160	200	250	300	400	500
	kW	100	125	160	200	250	300	400	500
INPUT	Rated Voltage	400 Vac three-phase with neutral							
	Voltage tolerance	-20% to +15%							
	Rated frequency	45 to 65 Hz							
	Power factor	≥0.99							
	Current distortion (THDI)	<3%							
OUTPUT	Rated Voltage	380/400/415 Vac three-phase with neutral							
	Voltage stability	±1% (static)							
	Frequency	50/60 Hz							
	Frequency stability	±0.001% (free running)							
	Power factor	1							
	Crest factor	3:1							
	Voltage distortion	<1% with linear load, <5% with distorting load							
BATTERY	Number per string (batt 12V)	60 – 62 configurable							
	Max. charging current *	Up to 50 A				Up to 120 A			
	Common battery for parallel configuration	Supported							
EFFICIENCY	VFI mode	Up to 96%							
	ECO mode	Up to 98%							
BYPASS	Rated Voltage	380/400/415 Vac three-phase with neutral							
	Voltage tolerance	±10% (selectable)							
	Frequency	50/60 Hz							
	Frequency tolerance	±10 Hz (selectable)							
GENERAL	Dimensions (WxDxH) mm	560 x 940 x 1800			880 x 970 x 1978			1430 x 970 x 1978	
	Weight (kg)	320	360	380	720	850	930	1080	1250
	Protection class	IP20							
	Parallel connection	Up to 6 units							
CONNECTIVITY	User interface	LCD display, LED synoptics and keyboard				Colour touch screen display			
	Built-in communication ports	USB, RS232, EPO, auxiliary contact for battery switch, auxiliary contact for external manual bypass, diesel mode contact and two additional slots for optional cards.							
	Optional accessories	Cards: SNMP, RS485, ModBus, dry relay contacts, remote monitoring panel. monitoring of up to 64 units							
ENVIRONMENTAL PARAMETERS	Operating temperature**	0 – 40°C							
	Relative humidity	0 – 95% (without condensing)							
	Altitude (a.s.l.)	<1000 m with no power derating, >1000 m with 0.5% derating for every 100 m.							
	Audible noise at 1 m	<60 dBA							
REGULATIONS	Standards	IEC EN 62040-1, IEC EN 62040-2, IEC EN 62040-3							
	Marking	CE, UKCA							

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