

UPS  
Model:

## YP-Defence GT

(100 kVA - 800 kVA)



Frequency	Phase	Power Factor	Power (VA)	Rated Voltage
45 - 65 Hz	3	1	(100 - 800 kVA)	400 VAC

### Additional Information

- A highly efficient double conversion UPS with robust design, achieving up to 95% efficiency in VFI mode and up to 98% in ECO mode, leveraging IGBT technology to eliminate system oversizing costs and ensure a low total cost of ownership (TCO).
- The UPS features a built-in inverter transformer for DC-AC galvanic protection, delivering uninterrupted power during outages and maintaining stable voltage levels to protect sensitive equipment from power fluctuations and faults.
- With minimal maintenance requirements, the system offers full front access to all components and utilizes high-quality materials, significantly reducing servicing costs.
- By optimizing input power utilization (PF 0.99) and maintaining low total harmonic distortion (THDi <3%), it ensures compatibility with the upstream power source, improving system efficiency and reducing electrical noise, preventing malfunctions.
- This generator-compatible UPS extends generator lifespan and enhances fuel efficiency by stabilizing voltage and frequency, regulating power fluctuations, and supporting seamless transitions. It reduces generator load, allowing for smaller generator sizes while ensuring reliable power supply, business continuity, and cost savings.
- The dynamic charging mode, activated via firmware, offers maximum versatility for long autonomy and fast-charging applications. This function allows all available power not used by the load to quickly charge batteries, including those designed for extended autonomy, with adjustable charging currents according to manufacturer specifications for optimal battery lifespan.
- Additionally, the built-in Emergency Power Off (EPO) function provides a critical layer of safety and control during emergencies, simplifying maintenance procedures and ensuring compliance with safety standards.

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## YP-Defence GT

(100 kVA - 800 kVA)

MODEL		YP-Defence GT 100-125-160 kVA	YP-Defence GT 200-250-300 kVA	YP-Defence GT 400kVA	YP-Defence GT 500kVA	YP-Defence GT 600kVA	YP-Defence GT 800 kVA
<b>POWER</b>	kVA	100 / 125 / 160	200 / 250 / 300	400	500	600	800
	kW	90 / 112.5 / 144	180 / 225 / 270	360	450	540	720
<b>INPUT</b>	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%					
<b>OUTPUT</b>	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	0.9					
	Crest factor	3:1					
	Voltage distortion	<1% with linear load, <5% with distorting load					
Permissible overload	125% for 10 minutes, 150% for 1 minute						
<b>BATTERY</b>	Number per string (batt 12V)	50/52 configurable					
	Max. charging current *	Up to 100 A					Up to 200 A
<b>EFFICIENCY</b>	VFI mode	Up to 95%					
	ECO mode	Up to 98%					
<b>BYPASS</b>	Rated Voltage	380/400/415 Vac three-phase with neutral					
	Voltage tolerance	±10% (selectable)					
	Frequency	50/60 Hz					
	Frequency tolerance	±10 Hz (selectable)					
<b>GENERAL</b>	Dimensions (WxDxH) mm	815x825x1670	1200x860x1900	1990x990x1920	2430x990x2020	2440x990x2020	3640x990x1920
	Weight (kg)	100 kVA = 625 125 kVA = 660 160 kVA = 715	200 kVA = 970 250 kVA = 1090 300 kVA = 1170	1820	2220	2400	3600
	Protection class	IP20					
	Parallel connection	Up to 6 units					
<b>CONNECTIVITY</b>	User interface	LCD display, LED synoptics and keyboard					
	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.					
<b>ENVIRONMENTAL PARAMETERS</b>	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	<62 dBA					
<b>REGULATIONS</b>	Standards	IEC EN 62040-1, IEC EN 62040-2, IEC EN 62040-3					
	Marking	CE, UKCA					

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