

Technical specifications

Galaxy VX Technical Specs	500 kW to 1500 kW UPS
Topology	On-line double conversion with ECOConversion mode
Nominal Power (kVA)	500 - 1250 kW (1250 kW input/output cabinet) 500 - 1500 kW (1500 kW input/output cabinet)
Technical Power Ratings	500 kW, 625 kW, 750 kW, 800kW, 1000 kW, 1100 kW, 1250 kW, 1500 kW
Parallel capability	Up to 4 units (N+1)
Input	
Rectifier Type	IGBT active rectifier
Nominal Input Voltage	380V / 400V / 415V / 440V / 480V, 3-wire (3PH + PE) or 4-wire (3PH + PE + N) (600V with optional external transformer)
Input Voltage Range	+20% / -15%
Input Connection	Single or dual feed
Input Frequency	50 or 60 Hz nominal (40-70 Hz)
Input Current Total Harmonic Distortion (THDI)	< 3% @ 100% load
Input Power Factor	> 0.99
Walk-in	0 to 300s (configurable)
Short Circuit Withstand Rating	100 kA
Output	
Inverter Type	4 Level IGBT, high efficiency, transformerless
Nominal Output Voltages	380V / 400V / 415V / 440V / 480V, 3-wire (3PH + PE) or 4-wire (3PH + PE + N) (600V with optional external transformer)
Load Power Factor	0.7 leading to 0.5 lagging without UPS derating
Voltage Regulation	+/- 1%
Frequency Regulation	50/60Hz +/- 0.1% (free running)
Overload in Normal Operation (at 40°C)	Continuous up to 110% 10 minutes up to 125% 1 minute up to 150%
Overload in Bypass Operation (at 40°C)	Continuous up to 110% (380V / 400V / 415V / 440V) Continuous up to 125% (480V) 1 minute up to 150% (all voltages)
Output Voltage Distortion (THDU)	<2% at 100% linear load; <3% at 100% nonlinear load
Output Power Factor	1.0 kVA = kW
Efficiency Details	
Double Conversion mode	Up to 96.5%
ECOConversion mode	Up to 99%
Energy Storage Parameters	
Type	Li-Ion, VRLA, Wet Cell, Flywheel
Nominal DC Bus Voltage	480 VDC
Common battery string	Yes (VRLA only)
Communication	
Multilingual Graphics LCD Display	Yes
Compatibility with APC Communication cards	AP9630
Communication Details	Modbus TCP/IP, SNMP, Email Modbus RS-485 (optional)

Technical specifications cont.

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Mechanical Dimensions	
1250 kW I/O Cabinet (H x W x D)	
500 kW	77.6 x 94.4 x 35.4 in (1970 x 2400 x 900 mm)
625/750 kW	77.6 x 118.1 x 35.4 in (1970 x 3000 x 900 mm)
800/1000 kW	77.6 x 141.6 x 35.4 in (1970 x 3600 x 900 mm)
1100/1250 kW	77.6 x 165.2 x 35.4 in (1970 x 4200 x 900 mm)
1250 kW N+1	77.6 x 188.8 x 35.4 in (1970 x 4800 x 900 mm)
1500 kW I/O Cabinet (H x W x D)	
500kW	77.6 x 126 x 35.4 in (1970 x 3200 x 900 mm)
750kW	77.6 x 149.6 x 35.4 in (1970 x 3800 x 900 mm)
1000 kW	77.6 x 173.2 x 35.4 in (1970 x 4400 x 900 mm)
1250 kW	77.6 x 196.9 x 35.4 in (1970 x 5000 x 900 mm)
1500 kW	77.6 x 220.5 x 35.4 in (1970 x 5600 x 900 mm)
1500 kW N+1	77.6 x 245.1 x 35.4 in (1970 x 6200 x 900 mm)
Standards and Approvals	
Performance and Safety	UL 1778 5th edition, cUL CE, IEC 62040-1 IEC 62040-3 (VFI-SS-111)
EMC Emissions	FCC 47 Part 15 IEC 62040-2
Seismic	OSHDP IBC 2012
Surge	ANSI 62.4/B3
IP level (Ingress Protection)	IP20
Environment	
Operating Temperature	0 – 40° C (32 – 104° F) without derating
Humidity	0 – 95% noncondensing
Elevation / Altitude	1000 m (3333 ft) 100% load without derating
Standard Features	
Soft Start, Walk-in Charger for Compatibility with Gensets	Yes, Adaptive, Configurable 1 to 300s
Cold Start Function (start without mains)	Yes
Emergency Stop (EPO)	No
Frequency Converter	Yes
Backfeed Protection	Yes
Smart Power Test (Spot)	Yes