

FOR USE IN LARGE DATA SYSTEMS & LARGE INDUSTRIAL SITES

> VANGUARD THREE-PHASE 80-200kVA UPS LINE

Our NXT Power Vanguard 80-200kVA Three-Phase UPS is a true online double conversion UPS. It is specifically designed to handle the higher power needs of mission-critical loads. Providing maximized uptime with clean and uninterrupted power for your mission-critical applications with industry-leading efficiency, durability, and performance.

POWER QUALITY YOU CAN RELY ON

This model also features a 3-level switching rectifier and inverter, reducing its impact on local power supply and simplifying installation in areas with limited power capacity. Additionally, the NXT Power Vanguard 80-200kVA Three-Phase UPS acts as a high-performance filter, safeguarding its power sources from any harmonics and reactive power produced by connected loads.



SUITABLE FOR USE WITH:

- > Data Centers
- > Large Networks
- > Light Industrial Sites

SUPERIOR POWER PROTECTION BENEFITS & FEATURES

- Built-in Power Quality Metering and Advanced Touchscreen Display
- Low input current distortion — $\leq 3\%$ & High input power factor 0.99
- Power walk-in function that ensures progressive rectifier start up
- UL Listed
- Delayed start up phased with the return of mains power supply when several UPS are connected in the system.
- High energy efficiency, $\geq 96\%$ at full load.
- Once power is restored, the UPS will recharge its batteries for future use.
- True online double conversion topology conversion with options ranging from 80kVA to 200kVA
- A full Four-Year On-site Warranty

NXTPOWER

DELIVERING ULTIMATE POWER PROTECTION

WWW.NXTPOWER.COM

PRODUCT SPECIFICATIONS

ELECTRICAL DATA

UPS Power (KVA / KW)

50 / 50

65 / 65

80 / 80

100 / 100

125 / 125

160 / 160

200 / 200

INPUT

Nominal Voltage	480VAC 3 Phase, 3-Wire + Grd.						
Nominal Voltage Range	-30%, +15%						
Input Frequency Range	From 45 to 65Hz						
Nominal Input Current	63	81	100	125	156	200	250
Maximum Input Current	73	94	112	145	181	224	280
Power Factor at nominal voltage (480 V) and battery charged from 25%	> 0.99						
Reflected Current Harmonic distortion (THDi) at 100% load	≤ 3%						
Rectifier Walk-in	from 0 to 125 Seconds (Configurable)						
Rectifier Walk-in Delay	from 0 to 600 Seconds (Configurable)						

D.C INTERMEDIATE CIRCUIT

Number of Cells	240
-----------------	-----

INVERTER

Static Variation	± 1%
Dynamic Variation	± 5%
Crest Factor	3:1
Voltage Distortion with Linear Load	≤ 1%
Voltage Distortion with non-linear Load	< 3%
Frequency Stability with Synchronized Inverter to the By-Pass Line	± 2% (± 1% to ± 6% from Control Panel)
Frequency stability with not synchronized inverter to the by-pass line	± 0.1Hz
Speed of Frequency Variation	1Hz/ sec (Parallel Units can be Calibrated from 0.1 to 1Hz/s)
Phase Voltage Asymmetry with Balanced and Unbalanced Load	≤ 1%
Phase Displacement of the Voltages with Balanced and Unbalanced	120 ± 1 °el
Overload in Referred to the Nominal Power	110% for 60 Minutes, 125% for 10 Minutes, 150% for 1 Minute
Inverter Efficiency	≥ 96%

BY-PASS

Nominal Voltage	480VAC 3-Phase (Without Neutral)
Nominal Voltage Tolerance	± 10% (up to ± 20% Programmable)
Nominal Frequency	50/60 Hz
Frequency Tolerance	± 5% Nominal (up to ± 10% Programmable)

SYSTEM

AC/AC Efficiency at Full Load	≥ 96%						
Efficiency with UPS in STAND-BY Mode	up to 99 %						
Full Load Heat Rejection BTU/hr	7,000	9,100	10,350	13,058	17,055	21,000	26,300

MECHANICAL

Height x Width x Depth – inches (mm)		
UPS	70.98 x 27.65 x 32.07 [1803 x 702.4 x 814.6]	70.98 x 31.59 x 32.07 [1803 x 802.4 x 814.6]
UPS with Side Car	70.98 x 43.58 x 32.24 [1803 x 1107 x 819]	70.98 x 47.52 x 32.24 [1803 x 1206.9 x 819]
Weight – lbs. / [kg]		
UPS	991 / [450]	1268 / [575]
UPS with Side Car	Minimum 1141 / [518] Maximum 1281 / [581]	Minimum 1438 / [652] Maximum 1578 / [716]

Freestanding NEMA 1 Enclosure, Powder Coat Painted Black Color with Textured Finish, Bottom Access for Conduit Entries

ENVIROMENTAL

Ambient Temperature	-5° C to 40° C
Storage Temperature	-25° C to 55° C
Relative Humidity	0 – 95% Non-Condensing
Altitude	< 2000 Meters Derate Load Capability Above 1000 Meters 1% per 100 Meters
Audible Noise	≤ 69 dBA

COMMUNICATIONS

SNMP/WEB (Standard)	SNMP Card with NetAgent Software
Modbus (Standard)	Monitoring via RS-485/RTU Protocol/Read Holding
BACnet (Optional)	TCIP & RS485
SNMP/WEB WiFi or Cellular (Optional)	SNMP Card with NetAgent Software
Modbus WiFi or Cellular (Optional)	Monitoring Protocol/Read Holding
BACnet WiFi or Cellular (Optional)	TCIP

NXTPOWER

DELIVERING ULTIMATE POWER PROTECTION

WWW.NXTPOWER.COM