

DELTRONICS VENUS SERIES

1:1 Phase PF 1.0 / POWER RANGE: 6-10 KVA

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DELTRONICS



Deltronics Venus RT Series 6-10 KVA

The VN-RT Series is an online double-conversion UPS with a unity power factor, engineered to deliver stable and continuous power in professional environments. Its wide input voltage range (110-300 Vac), high performance, and compatibility with generators and both VRLA and lithium batteries ensure reliable operation even under severe power fluctuations.

It incorporates advanced features such as dual input sources, a 3.5" rotating touch display, multiple communication ports, and smart-card slots. Intelligent cooling, low noise levels, and compliance with international standards provide comprehensive protection against overloads, short circuits, overheating, and battery failures.

Features

- Lithium or VRLA battery selectable
- Wide input voltage range: 110~300Vac
- Dual input source (Optional)
- Generator compatible
- Programmable receptacles
- Multiple communication interface: RS232/USB/RS485/EPO/PDU signal/Battery temperature signal/Battery group signal/Dual Intelligent card slot (Mini card slot optional)
- Maximum charging current up to 15A
- Cold start function (Only for VRLA battery)
- Dual Intelligent card slot for touch screen version
- Dry contact port optional (4 pins input and 4 pins output)
- Rail (Optional)
- PDU with maintenance bypass switch (Optional)
Intelligent fan speed regulation
- Low noise design, less than 45dB for 6kVA
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm
- IEC62619/UL1973/UN 38.3 certified lithium battery pack

LCD



Full-color touch LCD

Advanced UPS control through a 3.5" LCD panel



2U UPS+2U
Lithium Battery Pack



4U UPS
VRLA Battery Built-in



2U UPS+3U
VRLA Battery Pack

Multiple communication interfaces



Mini
Dry Contact
card



Mini
SNMP card



Dry
Contact card



SNMP
card



6-10KVA
220V (L-N)

Online double conversion for maximum stability

Power factor 1.0: real power with no losses

Wide input voltage range (110-300 Vac)



Multifunctional
Bracket



The 3.5 inch touch screen LCD panel can be rotated (Touch screen is gravity sensing)

Compatible with VRLA and lithium batteries

3.5" rotating touch display for easy monitoring

Supports dual input sources

Technical Specifications

| MODEL | VN-6KRT-H16 | | VN-10KRT-H16 | |
|--|--|---|---------------------|-----------------------|
| Capacity (VA/W) | 6000/6000 | | 10000/10000 | |
| INPUT | | | | |
| Nominal Voltage (Vac) | 208/220/230 (Default)/240 | | | |
| Operating Voltage Range (Vac) | 110~300 (110~300@50% load/176~300@100% load) | | | |
| Power Factor | ≥0.99 | | | |
| Input Connection | HW terminal (L+N+G) | | | |
| Harmonic Distortion (THDi) | < 2% | | | |
| Bypass Voltage Range (Vac) | Max.voltage: 208/220: +25% (Optional +10%, +15%, +20%) 230: +20% (Optional +10%, +15%) 240: +15% (Optional +10%) Min.voltage: -45% (Optional -10%,-20%, -30%) | | | |
| OUTPUT | | | | |
| Nominal Voltage (Vac) | 208/220/230 (Default)/240 | | | |
| Voltage regulation | ±1% | | | |
| Power Factor | 1.0 | | | |
| Output Connection | Programmable: C19*2+C13*3; Non-programmable: HW terminal (L+N+G) | | | |
| Output Frequency (Hz) | Online mode: ±1%/±2%/±4%/±5%/±10% of the rated frequency (Optional); Battery mode: 50/60±0.1% | | | |
| Crest Factor | 3:1 | | | |
| Harmonic Distortion (THDv) | <1% Linear load ; <3% Non linear load | | | |
| Transfer Time(ms) | AC mode to Bat.mode: 0; Inverter to Bypass: 0 | | | |
| Waveform | Pure Sinewave | | | |
| Overload | Online mode | Load≤110%, last 60min; ≤125%, last 10min; ≤150%, last 1min; >150%, turn to bypass mode immediately | | |
| | Battery mode | Load≤110%, last 10min; ≤125%, last 1min; ≤150%, last 10 second; >150%, 0.5 second shut down | | |
| | Bypass mode | 105%≤load≤130%, only overload alarm; ≤150%, last 10min; ≤200%, last 1min; >200%, 0.5 second shut down | | |
| EFFICIENCY | | | | |
| AC Mode | Up to 95% | | Up to 95.5% | |
| ECO Mode | Up to 98.8% | | Up to 99% | |
| BATTERY | | | | |
| Battery Voltage (Vdc) | VRLA battery | 192 (Default)/216/240 | | 192 (Default)/216/240 |
| | Lithium battery | 192 | | 192 |
| Charging Current (Max.)(A) | 12 | | 15 | |
| Charging current adapts to the battery type and battery capacity | | | | |
| MANAGEMENT | | | | |
| LED Display | Online mode, Bat.mode, ECO mode, Bypass mode, Battery low voltage, Overload & UPS fault | | | |
| LCD Display | Input voltage, Input frequency, Input current, Output voltage, Output frequency, Output current, Load percentage, Battery voltage, Battery charging/discharging current, Ambient temperature & Remaining battery backup time | | | |
| ENVIRONMENTAL | | | | |
| Operating Temperature (°C) | 0~40 | | | |
| Storage Temperature (°C) | -25~55 | | | |
| Humidity Range | 0~95%RH @ 0~40°C (Non condensing) | | | |
| Altitude (m) | <1000, derating required between 1000 to 3000 | | | |
| Noise Level (dB) | <45 | | <50 | |
| PHYSICAL | | | | |
| Dimension WxDxH (mm) | 440×621.5×86.5 (2U) | | 440×621.5×86.5 (2U) | |
| Weight (kg) | 15 | | 17 | |
| STANDARDS | | | | |
| Safety | EN IEC 62040-1: 2019 + A11:2021 | | | |
| EMC | IEC 62040-2: 2016, EN IEC 62040-2: 2018, C2 | | | |
| Performance | IEC 62040-3: 2021, EN IEC 62040-3: 2021 | | | |

1. Specifications are subject to change without prior notice
 2. Data above are typical values for reference only, not as a basis for engineering design

PDU Specification

| Parallel PDU | VN-PDU10000 | VN-PDU20000P |
|--------------------------------------|---|---------------------------------------|
| Capacity (VA/W) | 10000/10000 | 20000/20000 |
| Nominal Input / Output Voltage (Vac) | 208-240 | |
| Max Input Current (A) | 60 | 120 |
| Input Connection | Terminal (L+N+G) | |
| Input Protection | 63A Breaker | 63A Breaker×2 |
| Output Connection | Terminal+IEC C19×4+IEC C13×6 | Terminal+IEC C19×2+IEC C13×3 |
| Output Protection | 63A breaker+16A breaker×2+10A breaker×2 | 63A breaker×2+16A breaker+10A breaker |
| Maintenance Bypass Protection | 63A Breaker | 125A Breaker |
| Dimension W×D×H (mm) | 440×621.5×86.5 (2U) | 440×621.5×86.5 (2U) |
| Weight (kg) | 10.5 | 11.5 |
| ENVIRONMENT | | |
| Operating Temperature (°C) | 0-40 | |
| Storage Temperature (°C) | -25-55 | |
| Humidity Range | 0-95%RH @ 0-40°C (Non condensing) | |
| Altitude (m) | <1000, derating required between 1000 to 3000 | |
| STANDARDS | | |
| Safety | EN IEC 62040-1: 2019 + A11: 2021 | |

VN BP 6-10kVA Battery Pack Specification

| MODEL | VN-BPRT-16 | VN-BPRT-20 |
|---------------------------------------|---|------------|
| BATTERY SYSTEM | | |
| Battery Type | VRLA (Lead acid maintenance free battery) | |
| Typical Battery Recharge Time (hours) | 4 (To 90% of full capacity) | |
| Typical Battery Life (years) | 3-5, depend on discharging cycle and ambient temperature | |
| System Voltage (Vdc) | 192 | 240 |
| Battery Quantity (pcs) | 1×16 | 1×20 |
| Capacity (Ah) | 7/9 | |
| PHYSICAL | | |
| Dimension WxDxH (mm) | 440×681.5×131 (3U) | |
| Weight (kg) | 47/55 | 55/65 |
| ENVIRONMENTAL | | |
| Operating Environment (°C) | 0-40 | |
| Humidity Range | 0-95%RH @ 0-40°C (Non condensing) | |
| Altitude (m) | <1000, derating required between 1000 to 3000 | |
| Noise Level (dB) | < 40 | |
| STANDARDS | | |
| Safety | EN IEC 62040-1: 2019 + A11: 2021; UL 1778: 2014 R4.23, CSA C22.2 NO. 107.3-14 + G11 | |

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VN-Li 5-30kVA Battery Pack Specification

| MODEL | VN-Li-192S12BP |
|---------------------------------------|--|
| BATTERY SYSTEM | |
| Battery Type | LiFePO ₄ |
| Typical Battery Recharge Time (hours) | 2 (To 90% of full capacity) |
| Typical Battery Life (years) | 8-10, depend on discharging cycle and ambient temperature |
| System Voltage (Vdc) | 192 |
| Capacity (Ah) | 12 |
| PHYSICAL | |
| Dimension WxDxH (mm) | 440×684×86.5 (2U) |
| Weight (kg) | 34 |
| ENVIRONMENTAL | |
| Operating Environment (°C) | 0-50 |
| Humidity Range | 0-95%RH @ 0-50°C (Noncondensing) |
| Altitude (m) | <1000, derating required between 1000 to 3000 |
| Noise Level (dB) | <40 |
| STANDARDS | |
| EMC | EN IEC 61000-6-1:2019; EN IEC 61000-6-3:2021; BS EN IEC 61000-6-1: 2019; BS EN IEC 61000-6-3: 2021 |
| Transportation | UN38.3 |
| Safety | ANSI/CAN/UL 1973:2022; IEC 62619:2022 (Li-ion battery cell: UL1642) |

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