



# VI933 Series

10 - 60 kVA / KW 3 Phase Rack and Tower UPS

More Than Power Backup – It's Power Assurance.

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RAPSTECH®

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## 10 - 60 kVA / KW 3 Phase Rack and Tower UPS



### Key Features

- 3P/3P,3P/1P, Online double conversion
- Mounted in 19 inch rack, or install as tower UPS.
- 7 inch touch LCD with IoT fu
- High reliability and environmental adaptability.
- IGBT rectifier and IGBT inverter
- LI-Battery compatibility
- Unity output power factor — kVA equal to kW
- Self-aging function enables on-site UPS testing without external load
- Event log storage up to 100,000 events
- Wide input voltage range
- Parallel redundancy — up to 4 units can be connected

#### Fully Digital DSP Control

- Ensures high reliability, precision power management, and system stability.

#### 3-Level Topology Design

- Offers enhanced performance and energy efficiency.

#### Digitally Controlled Battery Management

- Extends battery life with intelligent monitoring and optimization.

#### Built-in Power Charger

- Enables fast battery charging and proactive battery capacity management.

#### Intelligent Fan Design

- Automatically adjusts fan speed based on load.
- Reduces power consumption and operational noise.
- Equipped with fan failure self-check and auto-identification.

#### High Input & Output

- Input Power Factor (PF) > 0.99
- Total Harmonic Distortion (THDi) < 3%
- Overall system efficiency > 96%

#### Nine Power Problems Management

- Protects against power failure, sag, surge, under/over voltage, line noise, frequency variation, switching transients, harmonic distortion.

#### Power Factor Improve :

- Optimizes power usage and reduces energy waste.

| Model                | VI933-10KLR   | VI933-15KLR  | VI933-20KLR | VI933-30KLR               | VI933-40KLR | VI933-60KLR      |
|----------------------|---|--|-------------|---------------------------|-------------|------------------|
| Rate Power           | 10kVA/10kW  | 15kVA/15kW   | 20kVA/20kW  | 30kVA/30kW                | 40kVA/40kW  | 60kVA/60kW       |
| Input                | 3P5W (3P+N+PE)  |  |             |                           |             |                  |
| Rate Voltage         | 380/400/415VAC(L-L)   |  |             |                           |             |                  |
| Rate Freq.           | 50/60Hz   |  |             |                           |             |                  |
| Input                | Input PF >0.99  |  |             |                           |             |                  |
| Current distortion   | THDi<2%(100% Linear load)   |  |             | THDi<3%(100% Linear load) |             |                  |
| Voltage range        | 304 ~ 478VAC(L-L)full load ; 304 ~ 228VAC (L-L) power derate from 100% to 50%                 |  |             |                           |             |                  |
| Freq. range          | 40-70Hz   |  |             |                           |             |                  |
| Rate voltage         | ±120VDC(default 20 Nos, 20-50 Nos, selceted)  | ±240VDC(default 40 Nos,30-50 Nos, selceted)                            |             |                           |             |                  |
| Battery              | Charging capacity   | 50%*Pout   |             |                           | 20%*Pout    |                  |
| Rate voltage         | 380/400/415VAC(L-L)220/230/240VAC(L-N)  |  |             |                           |             |                  |
| Bypass               | Voltage range   | Range: -40%- +25% , Adjustable, default -20%+15%                       |             |                           |             |                  |
| Frequency range      | 50/60Hz Adjustable; ±1Hz, ±5Hz, ±3Hz  |  |             |                           |             |                  |
| Rate voltage         | 380/400/415VAC(L-L) ; 220/230/240VAC(L-N)   |  |             |                           |             |                  |
| Rate Freq.           | 50/60Hz   |  |             |                           |             |                  |
| Output PF            | Unity   |  |             |                           |             |                  |
| Voltage accuracy     | ±1.0%   |  |             |                           |             |                  |
| Output               | Output THD  | <1% ( linear load ) , <5% ( non-linear load according to IEC 62040-3 ) |             |                           |             |                  |
| Overload             | 110%,1 hour ; 125%,10 mins ; 150%,1 min ; >150%,200ms   |  |             |                           |             |                  |
| Frequency accuracy   | 0.1%  |  |             |                           |             |                  |
| Synchronize window   | Adjustable ±0.5Hz-±5Hz, default ±3Hz,   |  |             |                           |             |                  |
| Crest factor         | 3:1   |  |             |                           |             |                  |
| Efficiency           | Up to 96.5%   |  |             |                           |             |                  |
| Display              | LED + 7 inch touch LCD  |  |             |                           |             |                  |
| Compliance - Safety  | IEC62040-1, IEC60950-1  |  |             |                           |             |                  |
| Compliance - EMS     | IEC62040-2 ; IEC61000-4-2(ESD) ; IEC61000-4-3(RS) ; IEC61000-4-4 (EFT) ; IEC61000-4-5 (Surge) |  |             |                           |             |                  |
| System               | IP degree   | IP20   |             |                           |             |                  |
| Configuration        | USB, RS232, RS485, Dry contact  |  |             |                           |             |                  |
| Optional             | SNMP card, AS400 card   |  |             |                           |             |                  |
| Environment          | 0-40 °C ( operation ) ; -25 °C~70 °C ( storage ) ; 0-95% ( Humidity, non-condensing )         |  |             |                           |             |                  |
| Dimension (W*D*H) mm | 440*620*130 (3U)  |  |             | 440*788*174 (4U)          |             | 440*807*218 (5U) |
| Weight(kg)           | 21.4  | 22.4   | 22.7        | 38                        | 60          |                  |

\*Product specifications are subject to change without further notice.



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