



**UPS - Power Protection**



## ORVALDI V10-20KRT 3/3 (3/1) on-line 3U



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The ORVALDI V10-V20KRT 3/3 (3/1) on-line 3U series of uninterruptible power supplies (UPS) are online-class power supplies. Thanks to full microprocessor control, they provide a high level of control over connected devices. A wide range of input voltages extends the battery life. The ability to change the output voltage from 3 phases to 1 phase ensures device versatility



ORVALDI POWER PROTECTION SP. Z O.O.

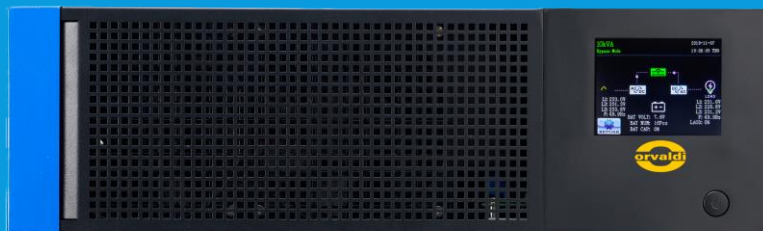
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## Product features:

- critical infrastructure support and protection against power outages,
- full microprocessor control,
- ability for remote monitoring of device operation,
- zero switching time,
- clean sine wave,
- cold start function allows the device to be powered on without mains power,
- front panel with information about the device's operation, provided through messages and icons,
- ability to operate in parallel with another device,
- user-friendly device.

## Applications:

- telecommunication devices,
- laboratories and scientific research,
- servers and data centers,
- industrial devices,
- critical infrastructure.



| MODEL  | ORVALDI V10KRT 3/3 (3/1)<br>on-line 3U   | ORVALDI V15KRT 3/3 (3/1)<br>on-line 3U                                      | ORVALDI V20KRT 3/3 (3/1)<br>on-line 3U |
|--|--|---|--|
| Capacity   | 10kVA/10kW   | 15kVA/15kW  | 20kVA/20kW                             |
| INPUT  | 190-520VAC (3-phase) @Load 50% ; 305-478VAC (3-phase) @Load 100%                     |   |  |
| Voltage range  | 46-54 Hz @50Hz 56-64 Hz @60Hz  |   |  |
| Frequency Range  | 3x360/380/400/415VAC (3-Phase+N) ; 208/220/230/240VAC (1-Phase+N)                    |   |  |
| OUTPUT   | 46-54 Hz @50Hz 56-64 Hz @60Hz  |   |  |
| Voltage  | Pure Sine Wave   |   |  |
| Frequency range  | 0ms  |   |  |
| Waveform   | BATTERY  |   |  |
| Transfer time  | 20   | 32-40 (adjustable)  |  |
| BATTERY  | +120/N/-120 VDC  | +192/N/-192 VDC or -240/N/+240VDC (dependent on the quantity of batteries)  |  |
| Amount   | +/-136,65VDC +/-1%   | +/-218,4VDC +/-1% or +273VDC +/-1% (dependent on the quantity of batteries) |  |
| Voltage (Battery mode)   | 1-12A +/-10% (adjustable)  |   |  |
| Charging Voltage   | CONTROL  |   |  |
| Charging Current   | LCD Display Touchscreen  |   |  |
| CONTROL  | Alarm  |   |  |
| Display  | Operating mode, load level, batteries charge status, input and output voltage values |   |  |
| Alarm  | FUNCTIONS  |   |  |
| Operating mode, load level, batteries charge status, input and output voltage values | Communication  |   |  |
| FUNCTIONS  | USB port,RS-232 port, intelligent slot for AS-400 or SNMP card                       |   |  |
| Communication  | Overload protection  |   |  |
| USB port,RS-232 port, intelligent slot for AS-400 or SNMP card                       | Yes  |   |  |
| Overload protection  | Short circuit protection   |   |  |
| Yes  | Circuit for the fuse and alternating current electronics                             |   |  |
| Short circuit protection   | Automatic recharge   |   |  |
| Circuit for the fuse and alternating current electronics                             | Yes  |   |  |
| Automatic recharge   | Automatic restart  |   |  |
| Yes  | Paraller operation mode  |   |  |
| Automatic restart  | Yes  |   |  |
| Paraller operation mode  | PHYSICAL   |   |  |
| Yes  | Dimension (DxWxH)  |   |  |
| PHYSICAL   | 680x438x133 mm 3U  |   |  |
| Dimension (DxWxH)  | 26 kg  | 28 kg   |  |
| Net height   | ENVIRONMENT  |   |  |
| 26 kg  | Working  |   |  |
| 28 kg  | tempeprature   |   |  |
| ENVIRONMENT  | 0-40°C   |   |  |
| Working  |  |   |  |
| tempeprature   |  |   |  |