



**UPS - Power Protection**



**ORVALDI VRT 10-20K 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,
- easy to read LCD display,
- ability to operate in parallel with another device,
- user-friendly device,
- EPO connector,
- EMBS connector.

## Applications:

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



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