

The **Volt TR Series** is a high-performance 3/3 Online UPS (three-phase input and output) designed for critical sensitive equipment. It is available in capacities of 10, 15, 20, and 30 kVA.



Auto Start
After the
Interruption

Cold Start
From Battery
Without Grid

Wide Entry
Voltage Range
110-300 VAC

**Full
Protection**
Short Circuit
and Overload

**High
Entrance**
Power Factor
(0.99)

**High
Output**
Power Factor
(0.9)

DSP
Micro Processor

**High
Energy
Savings**

**Smart
Battery
Management**

Eco Mode

**Sine Wave
Output**

**Generator
Combability**

GENERAL FEATURES

- ◆ High Frequency True Double Conversion Online Technology
- ◆ Pure sine wave output, clean energy for computers and sensitive electrical devices
- ◆ DSP (Digital Signal Processor) Technology
- ◆ Input Power Factor Correction (PFC) Wide Input
- ◆ Wide Input Voltage Range (110~300V)
- ◆ Output Power Factor 1
- ◆ Cold Start (Starting from Battery without Network)
- ◆ Auto Start (Automatic Start After Interruption)
- ◆ Automatic Battery Charging in Off Position
- ◆ Automatic Frequency Detection
- ◆ ECO Mode for High Energy Savings
- ◆ Selectable Output Voltage via LCD Display
- ◆ Bypass Power-On Self-Test Advanced
- ◆ Battery Management (ABM)
- ◆ Short Circuit and Overload Protection
- ◆ Load Sensitive Intelligent Fan Control
- ◆ Generator Compatibility Standard
- ◆ RS232 Communication Port and RJ45 Protection Port
- ◆ USB/SNMP Communication Port (Optional)
- ◆ N+X Parallelization Feature (Optional)

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TECHNICAL FEATURES

Capacity / Power	10 kVA / 10 kW	15 kVA / 15 kW	20 kVA / 20 kW	30 kVA / 30 kW
Introduction				
Input Voltage	380V / 400V / 415VAC			
Working Voltage Range	304 ~ 478 VAC (100% Load) / 228 ~ 304 VAC.(Decreases according to load)			
Playing Frequency	50/60 Hz. (Automatic Detection)			
Working Frequency Range	40 ~ 70 Hz (Auto Detection)			
Power Factor	0.99			
Total Harmonic Distortion (THDI)	<5%			
Bypass Voltage Range	-20% ~ +15% VAC Upper Limit; +10%,+15%,+20%,+25% / Lower Limit; -10%, -15%, -20%, -25%, -30%, -40% - From LCD Panel			
C-c-				
C-k- Voltage	380V / 400V / 415 VAC (Panel Selectable)			
Voltage Regulation	±1%			
Frequency Range	Synchronized with mains; 45~55 Hz. or 45~55 Hz. / Battery operation 50 / 60 Hz. ± 0.1 Hz.			
Wave attached	Full Sine			
C-k- Power Factor	1			
Harmonic Distortion	1% in linear load; 3% in non-linear load			
Crest Factor	3:1			
A -r- Load Capacity - Inverter Mode	110% Load for 60 min., 110-25% Load for 10 min., 125%-150% Load for 1 min. >150% Load for 200 ms.			
A -r- Load Capacity - ByPass Mode	125-130% Load for 10 min., 130-150% Load for 1 min., 150-400% Load for 1 sec., 125-130-400% Load for 200 ms.			
Yield				
Online Mode	Maximum 95%			
Battery				
Battery Voltage	In Standard Models; 240 VDC / 32-40 pieces (Adjustable)			
Internal Battery	(10+10) - 20*12V 7-9 Ah	(20+20) - 40*12V 7-9 Ah	(15+15)*2 Arm - 60*12V.7-9 Ah	
charge Current (Max.)	10A			
Typical Charge Time	In Standard Models; 90% capacity in 4 hours, In Long Term Models; Varies according to Battery Capacity			
System Features				
Smart-II Alarm System				
Transfer Time				
LED & LCD Display				
Generator				
Max. UPS that can be connected in parallel				
Protection	Short Circuit, Overload, High Voltage, Low Voltage, High Temperature, Low Battery, Fan Error			
Inform me				
Standard	RS232, RS485, USB, Battery Cold Start			
Optional	Programmable Dry Contact, SNMP, Paralleling			
Alarm				
Network Error	Sound warning at 4-second intervals			
Low Battery Voltage	Sound warning at 1 second intervals			
A -r- Load	Sound warning twice with 1 second intervals.			
UPS Error	Continuous Sound Warning-			
Environmental				
Working Temp	0 ~ 40°C			
Humidity	20% ~ 90% (Non-condensing)			
Noise Level	58dB (1m)			
IP Protection Class	IP20			
International- Security Standards-				
Low Voltage Directive	CE Compliant			
Electromagnetic Compatibility	CE Compliant			
Dimensions and A-rl-k				
Device Dimensions	Dotvolt A.S. has the right to change the model, visual and technical specifications of the products without prior notice.			
WxDxH (mm)	250x720x560	250x800x700	250x840x930	
Device Weight - rl (kg)	82	131	145	215

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