

PowerWalker VFI 20000TP 3/1

Online UPS



20000VA Online UPS with 0.9 Output Power Factor

3 phase in / 1 phase out
(also configurable as 1 phase in / 1 phase out)

Terminal Outlet , EPO, 2x Intelligent Slot, Parallel Port

USB & RS-232 Connection for monitoring

Optional: SNMP module, AS/400 card, Modbus card,
Battery Pack,



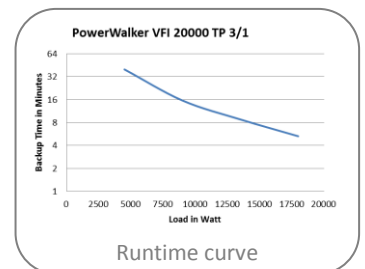
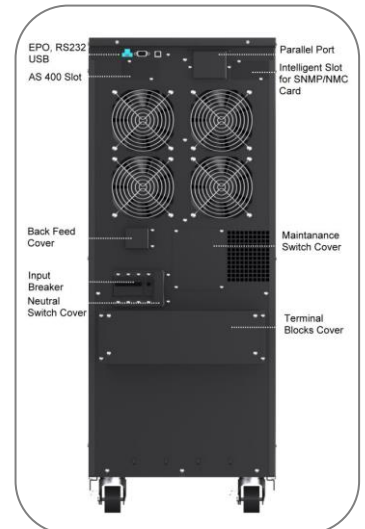
Item-No. 10120163



Product Features

With its true double-conversion online UPS design, PowerWalker VFI 20000TP 3/1 provides powerful and overall protection to your sensitive devices. With its 3 phase in and 1 phase out it can balance the power consumption from all incoming lines and creates a stable power output for equipment with even high power consumption. Multiple communication ports allows to integrate the UPS in existing structures. Extended back-up time by optional additional battery packs.

- True double-conversion with pure sine wave output
- Output power factor 0.9
- Monitoring software included
- Wide input voltage range (110-276 VAC 1Φ in/ 190-478VAC 3Φ in)
- Input power factor correction
- Input THDi <5%, Output THDv <2%
- 50/60 Hz frequency converter mode
- ECO mode operation for energy saving
- Emergency power off (EPO) function
- Intelligent fan control for reduced noise level
- N+X Parallel Redundancy for up to 4 UPS of same size
- Integrated maintenance bypass switch
- Optional: SNMP module, Dry Contact AS/400 card, Modbus card, External Battery Pack, Additional Internal Charger Board;



Technical Details

Product Features

Capacity	20000VA/18000W
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Input

Voltage	230V / 400V
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Voltage Range single phase	110-276VAC single phase with ground (L-N-G)
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Transfer Voltage Range	Based on Load percentage 100%/50%
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Line low loss	176VAC/110VAC (±3%)
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Line low comeback	186VAC/120VAC (±3%)
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Line high loss	276VAC (±3%)
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Line high comeback	266VAC (±3%)
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Voltage Range three phase	190-478VAC three phase with ground (R-S-T-N-G)
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Transfer Voltage Range	Based on Load percentage 100%/50%
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Line low loss	305VAC/190VAC (±3%)
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Line low comeback	322VAC/208VAC (±3%)
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Line high loss	478VAC (±3%)
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Line high comeback	461VAC (±3%)
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THDi	<5% with full load
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Frequency Range	45-55Hz/54-66Hz
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Power Factor	≥ 0.99 at Full Load
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Generator Set	1.8 x UPS Rating Power
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Output

Voltage	208/220/230/240 ± 1%
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Frequency (Synchronized Range)	45-55Hz/54-66Hz
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Frequency (Battery Mode)	50/60Hz ± 0.05Hz
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Current Crest Ratio	3:1
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Harmonic Distortion	≤ 2% (Full Linear Load)
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Waveform	Pure Sine Wave
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Overload Capability	5 min at 100-110%
	1 min at 110-130%
	10 sec at 130-150%
	2 sec at >150%

Transfer Time

AC to DC	Zero
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Inverter to Bypass	Zero
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Inverter to ECO	Zero
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ECO to Inverter	<10ms
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Battery

Type	12V / 9Ah
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Quantity	48x in two strings of 24 pcs
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Backup Time (full load)	5.3 Minutes
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Recharge Time	3h to 90%
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Bypass

Before UPS Power-on	Default "No" Change to "Yes" via display panel
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Overload und UPS Failure	Automatically transfer to bypass
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By Setting	Voltage Rang: 176-276V ± 3%
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LCD Display

LCD Indicators	UPS status, Load level, Battery level, Input/Output voltage, AC mode, Battery mode, Bypass mode, Fault conditions
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Audio Indicators

4 Modes	See manual for details
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Connections

Communication	USB & RS232
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Outlets	Terminal outlet
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Intelligent Slot	Yes
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AS-400 Slot	Yes
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EPO	Yes
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Parallel Port	Yes, up to 4 UPS (included)
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Maintenance Switch	Yes
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Software & System Requirements

Software	Winpower
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Operating System	For details visit: http://www.powerwalker.com/winpower.html
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Product Details

Dimensions	650 x 350 x 890 mm
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Colour	Black
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Weight	188 kg
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Fan Control	Always on, automatic speed control
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Noise Level	< 55dB at 1 Meter
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Model Code	VFI 20000TP 3/1
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Environment

Temperature	0°C – 45°C
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Humidity	0 - 95% (non-condensing)
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Package Content

Package Content	PowerWalker VFI 20000TP 3/1, manual, USB cable, RS-232 cable, parallel cable, Software CD ;
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Logistic Data

Giftbox Language	EN
Manual Language	EN
Dimension/Pallet	815 x 475 x 1120 mm
Weight/Pallet	201 kg
Pieces/Carton	1
Pieces/Pallet	1
Item Number	10120163
EAN-Code	4260074975598
Warranty	24 Month (except battery)
IEC Norm	62040-2 Category C3, 62040-1-1,

Use UPS configurator on www.powerwalker.com for detailed backup time information.

Available accessories



NMC Card (SNMP module)
Datasheet: [Link](#)
Item No.: 10120517



EMD for NMC Card
Environmental Monitoring Device
Monitor Temperature & Humidity
Datasheet: [Link](#)
Item No.: 10120545



CMC Card (Modbus Card)
Datasheet: [Link](#)
Item No.: 10120564



AS/400 Card
Datasheet: [Link](#)
Item No.: 10120528



Yuasa 12V/7Ah battery
Datasheet: [Link](#)
CSB or Panasonic brand
can also be used



Yuasa 12V/9Ah battery
Datasheet: [Link](#)
CSB or Panasonic brand
can also be used



4A Charger
For: VFI 20000 TP 3/1
Item No.: 10120573



Battery Pack with
2x Battery Sets inside
(Each battery set contain
24x 12V/9Ah batteries)
Datasheet: [Link](#)
Item No.: 10120559

RS-232 cable
Item Nr.: 91010012



USB cable
Item Nr.: 91010011