

# 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)

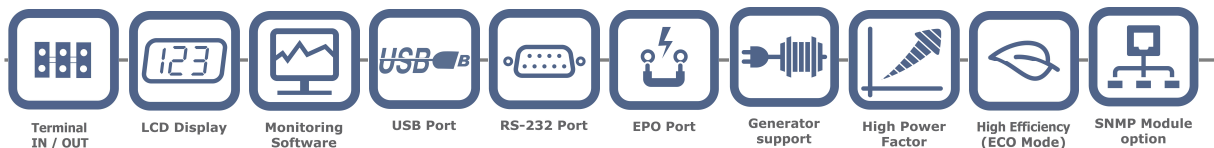
Terminal Outlet , EPO, 2x Intelligent Slot, Parallel Port

USB & RS-232 Connection for monitoring

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



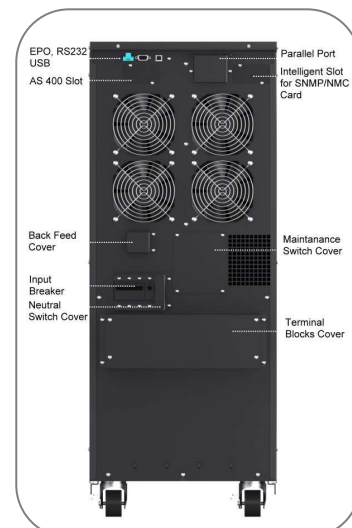
Item-No. 10120163



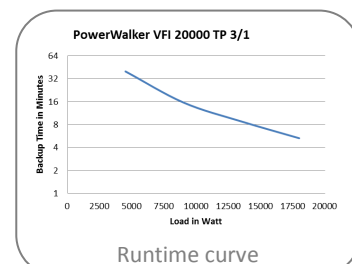
## Product Features

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;



LCD Display



Runtime curve

PowerWalker is a brand of:

BlueWalker GmbH

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## Technical Details

### Product Features

<b>Capacity</b>	20000VA/18000W
<b>Input</b>	
<b>Voltage</b>	230V / 400V
<b>Voltage Range single phase</b>	110-276VAC single phase with ground (L-N-G)
<b>Transfer Voltage Range</b>	Based on Load percentage 100%/50%
Line low loss	176VAC/110VAC (±3%)
Line low comeback	186VAC/120VAC (±3%)
Line high loss	276VAC (±3%)
Line high comeback	266VAC (±3%)
<b>Voltage Range three phase</b>	190-478VAC three phase with ground (R-S-T-N-G)
<b>Transfer Voltage Range</b>	Based on Load percentage 100%/50%
Line low loss	305VAC/190VAC (±3%)
Line low comeback	322VAC/208VAC (±3%)
Line high loss	478VAC (±3%)
Line high comeback	461VAC (±3%)
<b>THDi</b>	<5% with full load
<b>Frequency Range</b>	45-55Hz/54-66Hz
<b>Power Factor</b>	≥ 0.99 at Full Load
<b>Generator Set</b>	1.8 x UPS Rating Power
<b>Output</b>	
<b>Voltage</b>	208/220/230/240 ± 1%
<b>Frequency (Synchronized Range)</b>	45-55Hz/54-66Hz
<b>Frequency (Battery Mode)</b>	50/60Hz ± 0.05Hz
<b>Current Crest Ratio</b>	3:1
<b>Harmonic Distortion</b>	≤ 2% (Full Linear Load)
<b>Waveform</b>	Pure Sine Wave
<b>Overload Capability</b>	5 min at 100-110%
	1 min at 110-130%
	10 sec at 130-150%
	2 sec at >150%
<b>Parallel configuration</b>	Up to 4 UPS of same size Parallel port included
<b>Transfer Time</b>	
<b>AC to DC</b>	Zero
<b>Inverter to Bypass</b>	Zero
<b>Inverter to ECO</b>	Zero
<b>ECO to Inverter</b>	<10ms

### Battery

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

### Bypass

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

### LCD Display

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

<b>4 Modes</b>	See manual for details
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### Connections

<b>Communication</b>	USB & RS232
<b>Outlets</b>	Terminal outlet
<b>Intelligent Slot</b>	Yes
<b>AS-400 Slot</b>	Yes
<b>EPO</b>	Yes
<b>Maintenance Switch</b>	Yes

### Software & System Requirements

<b>Software</b>	Winpower
<b>Operating System</b>	For details visit: <a href="http://www.powerwalker.com/winpower.html">http://www.powerwalker.com/winpower.html</a>

### Product Details

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

### Environment

<b>Temperature</b>	0°C – 45°C
<b>Humidity</b>	0 - 95% (non-condensing)

### Package Content

<b>Package Content</b>	PowerWalker VFI 20000TP 3/1, manual, USB cable, RS-232 cable, parallel cable, Software CD ;
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### Optional Accessories

<b>SNMP/NMC Module</b>	Item-No.: 10120517
<b>Battery Pack</b>	Item-No.: 10120559
<b>AS/400 card</b>	Item-No.: 10120528
<b>Internal Charger</b>	Item-No.: 10120573

### Logistic Data

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

Version: EN 12/02/2013

We reserve the right for technical changes and mistakes

Use UPS configurator on [www.powerwalker.com](http://www.powerwalker.com) for  
detailed backup time information.