

# PowerWalker VFI 20000TP 3/3 BI

Online UPS

20000VA Online UPS

3 phase in / 3 phase out

Parallel and parallel redundant (N+X) system setup with already integrated communication slots

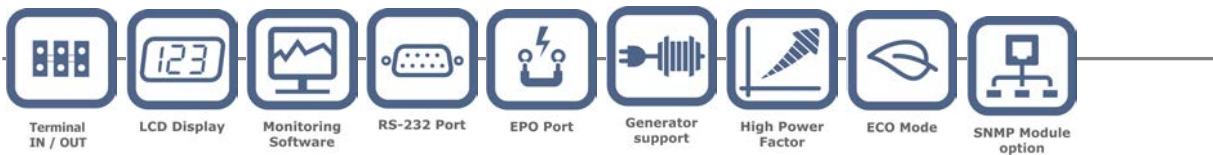
AS/400 port, Intelligent slot, EPO, RS-232, RS-485, extended slot, parallel communic. port, integrated MBS

Dual Feed input, Terminal- in and - out , IP21 compliant design

Optional: SNMP module, Battery Pack, USB-Card



Item-No. 10120174



## Product Features

With its true double-conversion online UPS design it fits perfectly to any environment where uninterrupted power feed is required to secure critical equipment's continuous operation. Multiple communication ports allow integrating the UPS in existing structures. This model provides a perfect solution for power protection, and solves power quality problems such as surges, spikes, voltage fluctuations, harmonic distortion, clutter interference and frequency fluctuations.

Each phase is independently double converted and regulated. In addition, PFC (power factor control) controller is used for real time control and data processing, ensuring high availability at all times. Further extent reliability is accomplished by introducing intelligent charge mode which significantly prolongs service life of batteries. Also, possibility to have dual feed on UPS input adds availability thus increases reliability of system.

IP21 compliant design makes it a perfect fit to industrial and other applications, where harsh environmental conditions may set extent requirements to mechanical design. Optional filter is also available for further protection against the smallest damaging particles.

- True double-conversion with pure sine wave output
- Monitoring software included
- Wide input voltage range of 210 to 475 Vac
- ECO mode operation for energy saving
- Emergency power off (EPO) function
- N+X Parallel Redundancy for up to 8 UPS of same size



Backside view



LCD + LED Display



## Technical Details

### Product Features

Capacity	20000VA/16000W
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### Input

Voltage	400 Vac (L-L), 230 Vac (L-N)
Voltage Range	285-475VAC @ Full Load 210-475VAC @ <70% Load
Phase	3-Phase + Neutral + Ground
Dual-line Input	Yes
THDi	<5%
Frequency Range	40-70Hz (self-adaptive to 50Hz/60Hz)
Power Factor	≥ 0.99
Generator Set	2.2 x UPS Rating Power

### Output

Voltage	346/360/380/400/416VAC Derating 10% with 346/360VAC
Frequency (Synchronized Range)	46-54Hz/56-64Hz
Frequency (Battery Mode)	50/60Hz ± 0.05Hz
Current Crest Ratio	3:1
Harmonic Distortion	≤ 2% THD (Full Linear Load) ≤ 5% THD (Non-Linear Load)
Waveform	Pure Sine Wave
Overload Capability	10 min @ 110-125% 1 min @ 125-150% 0.5 sec @ >150%

### Efficiency

AC/Battery Mode	>93%
Eco Mode	>98%

### Transfer Time

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

### Battery

Internal	60pcs. of 12V batteries
Charging Current	± 4.5A

### Bypass

Static Bypass	Yes
MBS	Yes

### Display

Indicators	LED + LCD
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### Connections

Communication	RS-232, RS-485
Outlets	Terminal outlet
Intelligent Slot	Yes
AS-400 Port	Yes
EPO	Yes
Parallel Port	Yes, up to 8 UPS (built in)

### Software & System Requirements

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

### Product Details

Dimensions	420 x 700 x 1245 mm
Colour	Black
Weight	272 kg
Fan Control	Always on, automatic speed control
Noise Level	< 55dB @ 1 Meter
Model Code	VFI 20000TP 3/3 BI

### Environment

Temperature	0°C – 40°C
Humidity	20 - 90% (non-condensing)

### Package Content

Package Content	PowerWalker VFI 20000TP 3/3 BI, manual, RS-232 cable, Software CD
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### Optional Accessories

SNMP/NMC Module	
t.b.c.	

### Logistic Data

Giftbox Language	EN
Manual Language	EN
Dimension/Pallet	755 x 612 x 1504 mm
Weight/Pallet	324 kg
Pieces/Carton	1
Pieces/Pallet	1
Item Number	10120174
EAN-Code	4260074976045
Warranty	24 Month (except battery)

### Available accessories



Mini NMC Card  
Datasheet: N/A  
Item No.: 10120599



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



Mini Modbus Card  
Datasheet: N/A  
Item No.: 10120592



USB / RS-232 Card  
For 3P/3P Series BX/BE/BI  
Datasheet: N/A  
Item No.: 10120591



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



USB cable  
Item Nr.: 91010011



RS-232 cable  
Item Nr.: 91010012



Parallel Cable 5m  
For VFI 3P/3P Series BX/BE/BI



Parallel Cable 10m  
For VFI 3P/3P Series BX/BE/BI

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

Version: EN 12/12/2014  
We reserve the right for technical changes and mistakes