PowerWalker VFI 30000 TAP 3/3 BI

Online UPS

Item-No. 10122011

30000VA Online UPS

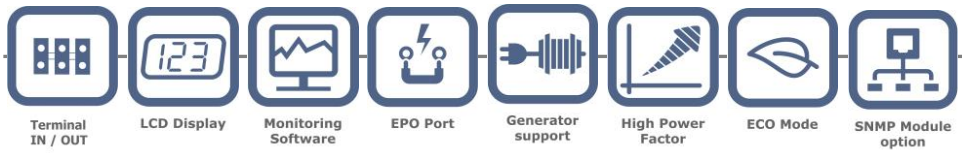
Leading Power Factor for modern IT Data Centers

Hot Parallel Connection - sharing load without communication between UPS

Energy-efficient performance lowers operating costs delivering up to 94% efficiency

Intelligent management of battery charging for prolonging battery life

Single cabinet solution reduces installation, wiring, and maintenance costs



Product Features

This unique on-line three phase series is manufactured for leading power. Almost whole market is working on lagging PF UPSs, which are meant to be in use with inductive loads like motors or transformers.

Recent improvements in computer power supplies managed to nearly remove issues concerning inductive character by wide usage of output capacitors. Those changes made PF very close to unity, but on the other hand, if load on computer power supply is low, it pushes the waveform into capacitive character. Until recently leading character of load could be expected from cables or bank of capacitors, which would not be a critical load for a UPS.

PowerWalker VFI TAP 3/3 Series is an answer for this need. Modern data centers, with high-end IT equipment require leading power supply. With the range up to 80kVA and possibility to connect UPSs in parallel it can be the only solution for your data center. Additionally it has increased power rating for bypass mode and high adaptability to all kinds of power quality challenges.

VFI TAP 3/3 features special battery recharging profile that helps to prolong battery life. UPS is designed to work on 32pcs battery strings, but this number can be increased to 36, providing more backup time in a single string. It is pre-wired for easy installation and thanks to very small footprint it leaves more floor space for revenue-producing equipment.

Backsite view

Control Ports

PowerWalker is a brand of:
BlueWalker GmbH
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Technical Details

Product Features

Capacity	30000VA/27000W

Input

Voltage	400 Vac (L-L), 230 Vac (L-N)
Voltage Range	330-478VAC 201-478VAC at 50% load
Phase	3-Phase + Neutral + Ground (TN, TN-S, TN-C, TN-C-S, TT)
THDi	<5%
Frequency Range	42-70Hz

Output

Voltage	380/400/415VAC
Voltage Regulation	+/-1% @ balanced static load
Frequency (Battery Mode)	50/60Hz ± 0.005Hz
Current Crest Ratio	3:1
Power Factor	0.7 lagging to 0.9 leading without derating
Harmonic Distortion	≤ 2% THD (Full Linear Load) ≤ 5% THD (Non-Linear Load)
Waveform	Pure Sine Wave
Overload Capacity	60min @ 102-110%; 10min @ 111-125%; 1min @ 126-150%; 0.5s @ >150%
Overload Capacity in bypass mode	115% load continuous; 1000% load for 20ms

Efficiency

AC/Battery Mode	>94%
Eco Mode	>98%

Transfer Time

AC to DC	Zero
Inverter to Bypass	Zero
ECO to Inverter	4ms

Battery

Internal capacity	96pcs. of 9Ah
Internal connection	3 strings of 32pcs of 12V each
Nominal Voltage	384VDC
Charging Current	8A
Recharging Time	10h

Indicators

Display	4x LED + LCD
Audible Alarm	Yes
Building Alarm Connection	Yes

Connections

Communication	RS-232, USB
Outlets	Terminal outlet
Intelligent Slot	Yes x2
EPO	Yes
Parallel Port	Yes, up to 4 UPS (built in)

Software & System Requirements

Software	WinPower
Operating System	For details visit: http://www.powerwalker.com/winpower.html

Product Details

Dimensions	500 x 960 x 1230 mm
Colour	Black
Weight	340 kg
Model Code	VFI 30000 TAP 3/3 BI

Environment

Temperature	0°C – 40°C
Humidity	5 - 95% (non-condensing)
Noise Level	< 62dB @ 1 Meter @ 75% load

Package Content

Package Content	PowerWalker VFI 30000 TAP 3/3 BI, manual, Software CD

Logistic Data

Giftbox Language	EN
Manual Language	EN
Dimension/Pallet	
Weight/Pallet	
Pieces/Carton	1
Pieces/Pallet	1
Item Number	10122011
EAN-Code	4260074977301
Warranty	24 Month (except battery)

Available accessories

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

EMD for NMC Card
Environmental Monitoring Device
Monitor Temperature & Humidity
Datasheet: Link
Item No.: 10120545

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

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

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

Version: EN 13/02/2015
We reserve the right for technical changes and mistakes

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