

# PowerWalker VFI TAP 3/3 Series

**2015 PREMIERE**

- Single cabinet solution reduces installation, wiring, and maintenance costs
- 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
- Leading Power Factor for modern IT Data Centers

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.

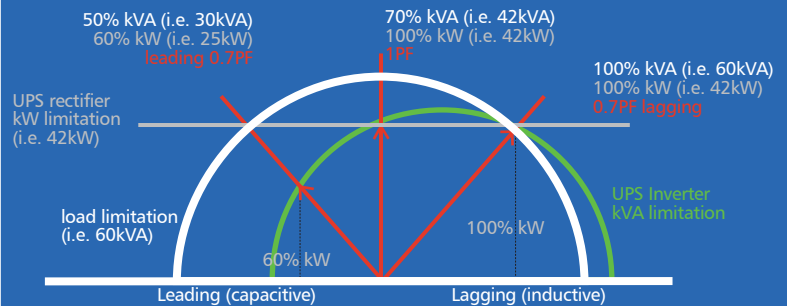
Recent improvements in computer power supplies managed to nearly remove issues concerning inductive character by wide usage of output capacitors. Those changes made PF very close to unity, but on the other hand, if load on computer power supply is low, it pushes the waveform into capacitive character. 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.



Typical lagging (inductive) characteristic with derating for leading load.



## Parallel Mode

Up to 4 models in parallel

MODEL	VFI 20000 TAP 3/3 BI/BE	VFI 30000 TAP 3/3 BI/BE	VFI 40000 TAP 3/3 BI/BE	VFI 60000 TAP 3/3 BX	VFI 80000 TAP 3/3 BX
Power (VA)	20000VA	30000VA	40000VA	60000VA	80000VA
Power (W)	18000W	27000W	36000W	54000W	72000W
Power Factor	0.7 lagging to 0.9 leading without derating				
<b>INPUT</b>					
Voltage	3x 400VAC (3Phase + N + G); Compatible with TN, TN-S, TN-C, TN-C-S, TT distribution systems				
Frequency Range	50/60 Hz (42-70Hz acceptable)				
Input Voltage Range	330-478VAC at 100% load or 201-478VAC at 50% load				
Current Distortion THDi	<5%				
<b>OUTPUT</b>					
Voltage	3 x 380/400/415 VAC (3phase + N + G)				
Voltage Regulation	+/- 1% @ balanced static load				
THD	<2% with linear load; < 5% with non-linear load				
Current Crest Ratio	3:1				
Frequency Range	50/60 Hz +/-0.005Hz				
Transfer Time	0ms (max 4ms from bypass to on-line)				
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				
Overload capacity in Battery Mode	1min @ 102-105%; 30s @ 126-150%; 0.5s @ > 150%				
Parallel Operation	up to 4 units of the same size				
Efficiency	AC Mode: 94%; ECO Mode: 98%				
<b>BATTERY</b>					
Battery Type	9Ah / 12V				
Amount	2 x 32pcs or empty	3 x 32pcs or empty	4 x 32pcs or empty	only external, 32pcs in a string	
Recharge Time	10h to 90%				
Charging Current	5.3A	8A	10.6A	16A	24A
<b>PHYSICAL</b>					
Dimension (mm)	500 x 706 x 960	500 x 706 x 1230	500 x 706 x 1500	600 x 796 x 1876	
Net Weight (kg)	240kg or empty 72kg	340kg or empty 88kg	455kg or empty 120kg	202	245
Humidity	5-95% RH @ 0-40degC, but max 35degC continuous				
Noise Level	< 55db	< 62db @ 75% load		< 65db @ 75% load	
<b>COMMUNICATION</b>					
LCD Display	Graphical LCD with blue backlight + 4 functional LEDs				
Communication	2x Intelligent Slot, RS-232, USB, EPO, Building Alarm				
Optional SNMP	Power management from SNMP manager and web browser				

