

## **PowerWalker VFI CPT 3/3 Series**

## **2016 PREMIERE**

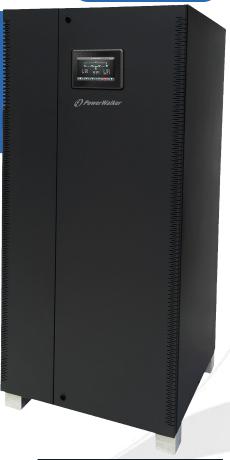
- Low input current distortion (THDi < 1%)</li>
- Output efficiency up to 95%
- Front access makes maintenance and replacement easy
- Advanced control with Adaptive Feed-Forward Cancellation (AFC) technology for very low harmonic distortion
- Highly flexible in single phase/three-phase set-ups
- 5.7" or 7" graphic LCD panel design with multiple languages for easy configuration

PowerWalker VFI CPT 3/3 Series is one of the most advanced professional UPS solutions reaching up to 200kVA with Power Factor 0.9 in a single compact cabinet. It features high-end parameters for efficiency, harmonic distortion and many other benefits. Fourth generation IGBT transistors helped to achieve high efficiency up to 95%, minimizing heat losses and prolonging life of the device.

The series is distinguished by superb flexibility. The unit can be built as single or three-phase input and output, including unique solutions for single phase input and three-phase output! Units have high adaptivity to all load types - non-linear, inductive or capacitive. Optionally, customer can choose between standard 5.7" Touchscreen LCD, enhanced 7" version or reduced text LCD Display.

VFI CPT series up to 40kVA reserves internal space for a single string of batteries up to 12Ah. Units with power output 60kVA and above are designed only for external batteries. Regardless of size, charging current can quickly recharge even the biggest batteries. By incorporating DC Neutral point in the battery string, it allows sharing a single battery cabinet among several units connected in parallel.

This series is made for various applications therefore flexibility and expansion capabilities were emphasized. Among many features we can include wide power range, parallel mode up to 4 units - summing up to 0.8MVA, different input/output phase configurations, sharing battery packs or several options like dual input, LCD panel and many others.



## Parallel Mode

Up to 4 models in parallel

MODEL	VFI 10K CPT 3/3 BE	VFI 15K CPT 3/3 BE	VFI 20K CPT 3/3 BE	VFI 30K CPT 3/3 BE	VFI 40K CPT 3/3 BE	VFI 60K CPT 3/3 BX	VFI 80K CPT 3/3 BX	VFI 100K CPT 3/3 BX	VFI 120K CPT 3/3 BX	VFI 160K CPT 3/3 BX	VFI 200F CPT 3/3 BX
Power (kVA)	10kVA	15kVA	20kVA	30kVA	40kVA	60kVA	80kVA	100kVA	120kVA	160kVA	200kVA
Power (kW)	9kW	13.5kW	18kW	27kW	36kW	54kW	72kW	90kW	108kW	144kW	180kW
INPUT								`			
Voltage	3x 400VAC (3Phase + N +G). Compatible with TN, TN-S, TN-C, TN-C-S, TT distribution systems										
Frequency Range	50/60 Hz (47.5 - 52.5Hz and 57 - 63Hz acceptable)										
Input Voltage Range	320-460VAC										
Current Distortion THDi	<1.5% @ 100% load <2.5% @ 50% load			<1.0% @ 100% load <2.0% @ 50% load			<1.5% @ 100% load <2.0% @ 50% load				
Current Limitation	High overload: PFC Limit (Discharging batteries)										
Power Factor	1.0										
INVERTER											
Voltage	3 x 380/400/415 VAC (3phase + N +G)										
Voltage Precision	+/- 1% @ balanced static load; +/- 2% @ transitory load variations (100-0-100%)										
THD	< 0.5% with linear load; < 1.5% with non-linear load										
Freqency Range	50/60 Hz +/-0.05% (Battery Mode); 50/60 Hz +/- 4% (Synchronized)										
Max. Sync. Speed	+/- 10 Hz/s										
Phase Displacement	120deg +/-1% (balanced load); 120deg +/-2% (imbanaces 50% of the load)										
Dyn. Recovery Time	10ms @ 98% of the static value										
Waveform	Pure Sine Wave										
Admissible Overload	Phase: 10min @ 100-125%; 1min @ 126-150%; Total: 10min @ 100-113%; 1min @ 114-135%										
Admiss. Crest Factor	3.4:1 3.2:1 2.8:1 3.2:1 3.0:1								1:1		
Admiss. Power Factor	0.7 inductive to 0.7 capacitive										
Imbalance	<1% Output Voltage Imbalance @ 100% Unbalanced Load										
Current Limit	High overload, short-circuit: RMS Voltage Limit; High Crest-Factor current: Peak Voltage Limit										
BYPASS											
Static	Solid state, microprocessor controlled; 0ms transfer time; 400% for 10s overload										
Maintenance	Without interruption										
EFFICIENCY											
AC Mode	90.0%	90.5%	91.0%	92.0%	92.5%	93.0%	94.0%	93.0%	93.3%	92.8%	92.6%
Battery Mode	94.5%	95.0%	95.3%	95.9%	96.2%	96.4%	96.9%	96.5%	96.4%	96.8%	96.9%
BATTERY	D =		( 62	424				0.1.			
Amount	Battery Empty; space for 62 pcs of max 12Ah o							Only External			
Charging Current	23.5A				47A 7			D.5A 188A			
INDICATORS				1: 1= 1	5 L CD	20 1 12 14	· · · · · · ·	T CD D:			
LCD Display			Gra	pnical louch	Screen LCD v	vith backlight	5./" or /" o	r Text LCD Dis	piay		
PHYSICAL			770 45	0 4400			0.0	E 500 43	20	050 00	0 1000
Dimension (mm)	770 x 450 x 1100				4221	1631	805 x 590 x 1320 850 x 900 231ka 255ka 550k				
Net Weight (kg) w/o batteries	78kg	86kg	94kg	110kg	122kg	162kg	231kg	25!	5 Kg	550	0kg

