

PowerWalker VFI CPT 3/3 Series

2016 PREMIERE

- Low input current distortion (THDi < 1%)
- 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 200K 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											
Frequency 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% (imbalances 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	
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												
Amount	Battery Empty; space for 62 pcs of max 12Ah or external						Only External					
Charging Current	23.5A			47A			70.5A			188A		
INDICATORS												
LCD Display	Graphical Touch Screen LCD with backlight 5.7" or 7" or Text LCD Display											
PHYSICAL												
Dimension (mm)	770 x 450 x 1100						805 x 590 x 1320			850 x 900 x 1900		
Net Weight (kg) w/o batteries	78kg	86kg	94kg	110kg	122kg	162kg	231kg	255kg		550kg		