

Powerware 9125 1000-3000VA

Technical Specification - Manufacturer's Declaration

Subclause	Characteristic of Equipment	Manufacturer's Declared Values
CONSTRUCTION		
	Model catalogue reference	PW9125 1000iRM PW9125 1500iRM PW9125 2000iRM PW9125 2200aRM PW9125 3000eaRM
	Classification in accordance with IEC 620040-3	VFI
	Topology	Online double conversion
	Model rating VA / W	PW9125 1000i 1000VA/700W PW9125 1500i 1500VA/1050W PW9125 2000i 2000VA/1400W PW9125 2200a 2200VA/1540W PW9125 3000e 3000VA/2100W
	Dimensions W x D x H	PW9125 1000i 432*490*89 mm PW9125 1500i 432*490*89 mm PW9125 2000i 432*490*89 mm PW9125 2000a 432*610*89 mm PW9125 3000i 432*610*89 mm
	Weight	PW9125 1000i 15 kg PW9125 1500i 23 kg PW9125 2000i 23 kg PW9125 2200a 35 kg PW9125 3000ea 37 kg
ENVIRONMENTAL		
4.1.4	Ambient storage temperature range	0-25°C
4.1.2	Ambient service temperature	0-40°C
4.1.1	Maximum service altitude	3000 m
4.1.3	Relative humidity range	5-95% non condensing
	Degree of protection in accordance with EN 60529	IP 20
7.3	Acoustic noise at 1 m - normal mode - stored energy	<45dB <50dB
ELECTRICAL CHARACTERISTICS – INPUT		
5.2.2 and 6.3.2.1	Rated input voltage Tolerance	160—288 Vac
5.2.2 and 6.3.2.2	Rated input frequency Tolerance	45-65 Hz
5.2.2 and 6.3.10	Rated input current	PW9125 1000i 4,3A PW9125 1500i 6,5A PW9125 2000i 8,7A PW9125 2000a 7.7A PW9125 3000e 13 A
5.2.2 and 6.3.9.2	Maximum input current	PW9125 1000i 4,3A PW9125 1500i 6,5A PW9125 2000i 8,7A PW9125 2200a 10.8A PW9125 3000e 13 A
5.2.2	Input current distortion at rated input current	<30%

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5.2.2 and 6.3.10	Input power factor	>95 Online mode
5.2.2 and 6.3.3	Inrush current	<20A (1000-2000VA) <50 A (2200-3000VA)
5.2.2	Number of input phases	1
OUTPUT WAVESHAPE		
5.3.1.2	Wave hape normal mode	Sine wave
5.3.1.2	Wave hape stored energy mode	Sine wave
	Transfer normal mode / stored energy mode	0 ms in normal mode
	Break time / make time	N/A
ELECTRICAL OUTPUT CHARACTERISTICS - STATIC CHARACTERISTICS - NORMAL MODE		
5.3.2	Rated output voltage	208/220/230/240 Vac
	Output voltage variation	+/- 3%
	Rated output frequency	50/60 Hz
6.3.2.2	Output frequency variation	+/- 3 Hz
6.3.2.3	Output frequency synchronised phase error at change of mode	0,2 Hz
	Rated output apparent power	PW9125 1000i 1000VA PW9125 1500i 1500VA PW9125 2000i 2000VA PW9125 2200a 2200VA PW9125 3000e 3000VA
	Rated output active power across linear load	PW9125 1000i 700W PW9125 1500i 1050W PW9125 2000i 1400W PW9125 2200a 1540W PW9125 3000e 2100W
	Rated output active power across a reference non-linear load	PW9125 1000i 700W PW9125 1500i 1050W PW9125 2000i 1400W PW9125 2200a 1540W PW9125 3000e 2100W
6.3.4.2	Total voltage distortion across linear load	< 5%
6.3.8.1	Total voltage distortion across a reference non-linear load	< 5%
6.3.4.2	Individual harmonics voltage	N/A
5.3.2 and 6.3.5.3	Short circuit capability	250% of output current
5.3.2 and 6.3.5.1	Overload capability	101-110% 2 min, then to bypass mode 111-150% 30 sec, then to bypass mode max 250% for 300 mSec
5.3.2 and 6.3.4	Range of load power factor permitted - linear load	Lagging to 1
	Number of output phases	1
5.3.2 and 6.3.4.5	Output voltage unbalance at reference unbalance load	N/A
5.3.2 and 6.3.4.5	Maximum phase angle variation	N/A

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6.3.4.6	Output volts - d.c. component, linear load	N/A
ELECTRICAL OUTPUT CHARACTERISTICS - DYNAMIC CHARACTERISTICS - NORMAL MODE		
5.3.2 and 6.3.6.1 and 6.3.6.2	Output voltage dynamic variation during transfer normal / stored energy mode of operation and vice versa	None
6.3.7.1 and 6.3.8.4	Output voltage dynamic variation due to load changes	N/A
	Maximum rate of change of output frequency	N/A
ELECTRICAL OUTPUT CHARACTERISTICS - STATIC CHARACTERISTICS - STORED ENERGY		
5.3.1	Rated output voltage	208/220/230/240V
6.3.4.4	Output voltage variation	+/- 3%
6.3.4.3	Rated peak output voltage	N/A
6.3.4.4	Rated peak output voltage variation	N/A
5.3.1.2	Non-sinusoidal voltage rise time 0.1 to 0.9	N/A
5.3.2	Output frequency	50/60 Hz
5.3.2	Output frequency variation	+/- 0,1 Hz
5.3.2	Rated output apparent power	PW9125 1000i 1000VA PW9125 1500i 1500VA PW9125 2000i 2000VA PW9125 2200a 2200VA PW9125 3000e 3000VA
5.3.2	Rated output active power	PW9125 1000i 700W PW9125 1500i 1050W PW9125 2000i 1400W PW9125 2200a 1540W PW9125 3000e 2100W
5.3.2	Rated output active power non-linear load	PW9125 1000i 700W PW9125 1500i 1050W PW9125 2000i 1400W PW9125 2200a 1540W PW9125 3000e 2100W
6.3.4.4	Total output voltage distortion	< 5%, <10% after battery low alarm
6.3.4.4	Individual harmonic voltages linear load	N/A
5.3.2 and 6.3.5.4	Short circuit capability	250% for 300ms
5.3.2 and 6.3.5.2	Overload capability	101-110% for 2 min 111-150% for 30 sec before shutdown
5.3.2	Range of load power factors permitted	Lagging to 1
5.3.2	Number of output phase	1
ELECTRICAL OUTPUT CHARACTERISTICS - DYNAMIC CHARACTERISTICS - STORED ENERGY		
6.3.6.1	Output voltage dynamic variation during transfer from stored energy mode to normal mode	None

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6.3.7.1	Output voltage dynamic variation due to load changes	N/A
EFFICIENCY		
6.6.11	Efficiency Input / Output	>80% normal mode >85% High Efficiency mode >87% normal mode (2200-3000VA) >93% High Efficiency mode (2200-3000VA)
SYNCHRONIZATION		
6.3.6.4	Acceptable voltage difference	+/- 12% of nominal
6.3.2.2	Range of frequency synch	+/- 3 Hz
6.3.6.4	Maximum phase error	N/A
STORED ENERGY MODE OF OPERATION		
	Duration of maximum permitted stored energy time at rated load	PW9125 1000i 5 min PW9125 1500i 8 min PW9125 2000i 5 min PW9125 2200a 7 min PW9125 3000e 5 min
6.3.9.1	Stored energy time	PW9125 1000i 5 min PW9125 1500i 8 min PW9125 2000i 5 min PW9125 2200a 7 min PW9125 3000e 5 min
6.3.9.2	Restored energy time to 90% charge	< 3 hours with internal batteries
6.3.9.1	Battery cut-off voltage	1,67 VDC per cell
CONTROL AND MONITORING SIGNALS		
5.8	List of indications and remote alarm / monitoring or interface devices	See Operation manual
BYPASS CHARACTERISTICS		
5.5.2	Type of bypass	Automatic
5.5.2	Mechanical / static	Mechanic
5.5.2	No break transfer / break transfer	
5.5.2	Break time / make time	5 ms
5.5.2	Maintenance bypass	No
5.5.2	Bypass protection fuse	No
5.5.2	Galvanic isolation fitted	No
ELECTROMAGNETIC COMPATIBILITY		
	Immunity, see IEC 62040-2	EN-50091-2
	Emission, see IEC 62040-2	EN-50091-2
	SAFETY	
	Safety	EN-50091-1, CB/IEC950
	Markings	CE, UL, VDE/GS (1000-2000VA) CE, GS (2200-3000VA), C-Tick