

## Features:

- Tower standalone metal case
- High frequency switching, transformerless
- Online – double conversion
- Active input PFC filter
- Wide input voltage range (110V-300V)
- Output power factor - 0,9
- Frequency auto-select
- Cold start
- ECO mode – higher efficiency
- LCD menu display
- Internal system bypass
- Selectable low battery voltage level
- Self-test on startup
- Advanced battery management
- Overcurrent protection, low battery voltage protection
- Auto-battery charger in OFF mode
- Fan speed control
- USB communication port,
- Optional EPO socket (emergency power off)
- Auto recovery after mains supply back
- External battery cabinet slot



**Application:** Telecommunication systems, personal computers, data center , control systems, measuring systems, servers.



VFI-SS-111

**CE RoHS**



1f/1f



IP20



3x IEC C13



36V



AUTO RECOVER



HF



ONLINE



TOWER



PF=0,9



230V AC  
50Hz



AVR



USB



SUPER CHARGER

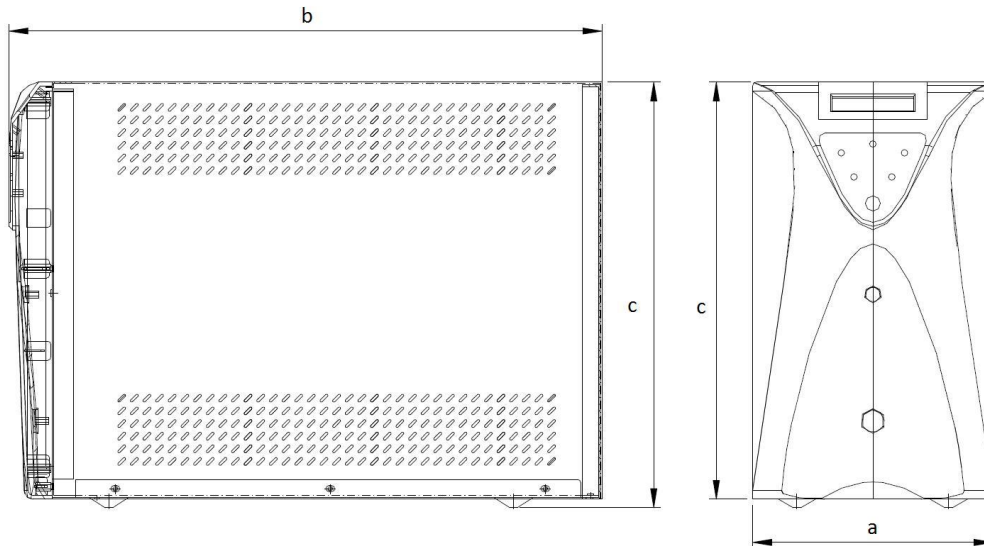


## Technical parameters:

MODEL	TS1-ON-1k0-MC-LCD-3x9
Output power (apparent/active)	1KVA/900W
<b>INPUT</b>	
Rated input voltage	230Vac
Input voltage range	Half power (115-295) $\pm$ 5Vac, full power (145-295) $\pm$ 5VAC , 45-55Hz $\pm$ 0,5%Hz
Power factor	$\geq$ 0,98
Bypass voltage range	Rated voltage -34V / + 32V
<b>OUTPUT</b>	
Output voltage	208V/220V/230V/240VAC selectable by LCD
Voltage regulation	$\pm$ 1%
Frequency	Synchronized with utility in mains mode, 50/60Hz $\pm$ 0,2Hz in battery mode
Output waveform	Pure sine
Harmonic distortion	$\leq$ 3% (linear load), $\leq$ 5% (non-linear load)
Transfer time	Mains mode to battery mode: 0ms, battery mode to bypass: 4ms (typ.)
Overload capacity	105%-125%: transfer to bypass mode in 60s; 125%-150%: transfer to bypass mode in 30s., >150%: transfer to bypass mode in 300ms
Output sockets	3x IEC C13
<b>EFFICIENCY</b>	
Mains mode/AC	$\geq$ 90%
Battery mode	$\geq$ 87%
ECO mode	$\geq$ 98%
<b>BATTERY</b>	
Working voltage	36V
Configuration	3x MWH 9-12 (or MWL 9-12L)
Charger current	1A
Backup time (min.) 100%/75%/50%	5 min / 9min / 16min
Typical recharge time	8 hours for 90% capacity
<b>ALARMS</b>	
Utility fault	Beep/4s
Low battery voltage	Beep/1s
Overload	Twice beep/1s
UPS fault	Long beep
<b>ENVIRONMENT</b>	
Humidity	20~90% RH @ 0~40°C (non-condensating)
Noise level	$\leq$ 50 dB (1m)
<b>COMMUNICATIONS</b>	
USB (Standard) /RS-232 option	Support with Windows®98/2000/2003/XP/Vista/2008/Windows®7/Windows®8
SNMP (option)	Power management from SNMP manager and web browser
<b>DIMMENSION &amp; WEIGHT</b>	
Weight netto/brutto (kg)	
Lenght/width/height (mm) a / b / c	

Box length/width/height (mm)	
<b>STANDARDS</b>	
LVD	EN62040-1:2008
	EN62040-1:2006
EMC compability	EN61000-3-2:2006 + A1:2009 + A2:2009
	EN61000-3-3:2013

## Technical drawings:



## Standard accessories:

- internal batteries MWH 9-12
- USB port
- USB cables
- UPSmart software
- RACK handle
- stand
- user manual
- Battery slot



## Additional accessories (options):

- RS-232 port
- AGM: MW 7.2-12, MWH 9-12, MWL 9-12L
- RS-232 cables
- RS-232 -> USB converter
- SNMP card
- AS400 relay dry contact
- EPO port



