

TS1-LI-MC-BC long backup UPS

1-3kVA PF=0,8



TS1-LI-1k0-MC-BC24

TS1-LI-2k0-MC-BC48

TS1-LI-3k0-MC-BC48

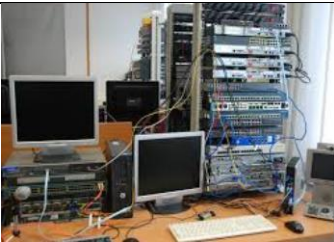


VI-SS-111

Features

• Pure sin output	• External AGM batteries for long backup
• Topology Line-interactive (szybka), VI-SS-111 High-frequency	• DSP control
• Tower standalone case	• Input PF – 0,95 • Output PF – 0,8
• Voltage independent	• FAN auto regulated
• Battery auto-charge	• Charging off mode
• Autodiagnostic, communication slot	• Cold start
• User menu interface with LCD	• USB port commucation
• Generator work allowed	• External battery socket

Typical application

		
Telecommunication systems	Measurments	Industrial
		
Network systems	Offices	Motor drives

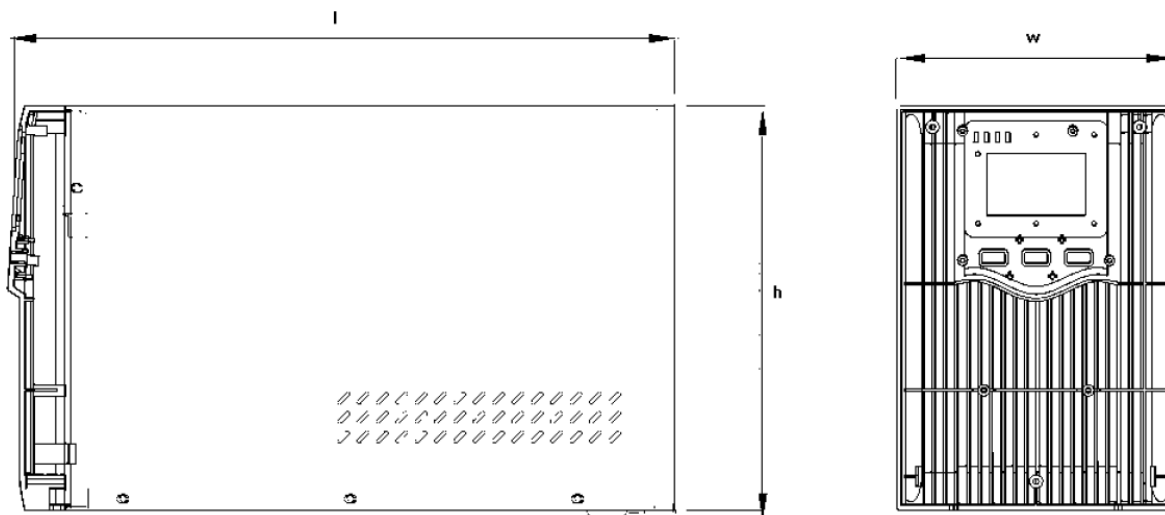
Technical parameters

MODEL	TS1-LI-1k0-MC-BC24	TS1-LI-2k0-MC-BC48	TS1-LI-3k0-MC-BC48
Rated power (reactive/active)	1000VA/800W	2000VA/1600W	3000VA/2400W
INPUT			
Input voltage	Rated: 230VAC (200V / 220V / 230V / 240V) Input voltage range 230V: 175Vac – 290Vac Bypass: -25%...+15% bypass		
Input voltage frequency	rated: 50/60Hz Autoselection Working range: 42-57Hz		
Power factor	PF >0,95		
Sockets	socket IEC C14		Socket IEC C20
OUTPUT			
Output voltage	Mains mode: 230Vac +/- 5%, Battery mode: 230Vac +/- 5%, Other settings: 208V, 220V, 240V		
Output voltage frequency	50/60Hz ± 1% (auto selection)		
Wave form	Mains mode: pure sine Battery mode: pure sine		
Transfer time	Mains -> battery: <10ms		
THD	THDv <5% linear		
Output sockets	IEC C13 1szt, Schucko 2szt		IEC C13 3szt, Schucko 3szt
Efficiency	Max 75%	Max 80%	Max 85%
Power Factor	0,8		
Crest factor	3:1		
Load type	Resistance, inductor, rectifier		
Overload protections	Mains mode: 110% for 120sek, 125% for 60sek, 150% for 10sek (transfer to bypass) Invertre mode: 110% for 60sek, 125% for 10sek, 150% for 5sek (shut down)		
BATTERIES			
Batteries type:	Lead-acid VRLA AGM 12V		
Charger current:	Default: 10A		
	Max. 15A	Max 20A	Max 25A
	Output charger: 1A,2A,3A,4A,5A,6A,7A,8A,9A,10A >10A co 5A		
Battery bank:	External connection		
Rated voltage:	24Vdc	48Vdc	
Boost voltage:	Default: 28,1V Range: 27,2...30Vdc	Default: 56,4V Range: 54,4...60Vdc	
Floating voltage:	Default: 27V Range: 26,4...29,4Vdc	Default : 54V Range: 52,8...58,4Vdc	
Low voltage level:	Default: 21,6V Range: 20,2...26Vdc	Default: 43,2V Range: 38,4...52Vdc	
End of discharge:	Default: 20,4V Range: 20,2...23Vdc	Default: 40,8V Range: 38,4...46Vdc	

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Rated power (reactive/active)	1000VA/800W	2000VA/1600W	3000VA/2400W
BATTERIES			
Min capacity*:	2szt 12V/7Ah	4szt 12V/7Ah	
Max capatity*:	2szt 12V/150Ah	4szt 12V/230Ah	
External cabinet*:	1pcs KU-BAT-2URT-6x7-BC24 1pcs KU-BAT-2URT-6x9-BC24 2pcs KU-BAT-2URT-6x7-BC24 2pcs KU-BAT-2URT-6x9-BC24 3pcs KU-BAT-2URT-6x7-BC24 3pcs KU-BAT-2URT-6x9-BC24 1pcs KU-BAT-3URT-12x9-BC24	1pcs KU-BAT-3URT-12x9-BC48 1pcs KU-BAT-3URT-16x9-BC48 2pcs KU-BAT-3URT-12x9-BC48 2pcs KU-BAT-3URT-16x9-BC48 3pcs KU-BAT-3URT-12x9-BC48 3pcs KU-BAT-3URT-16x9-BC48	
DIMMENSIONS WEIGHT			
Weight netto/brutto (kg)	11,6/12,6 kg	17,8/18,8 kg	28/30 kg
Width / depth / height (mm) w/l/h	144/345/215 mm	144/345/215 mm	190/467/335,5 mm
Packing dimension w/d/h (mm)	236/427/316 mm	236/427/316 mm	320/592/462 mm
Pallet	60pcs	60pcs	24pcs
PROTECTIONS			
Full protections	Overload, short-circuit, overvoltage, temperature, overdischarge, deep discharge		
Low voltage protections	Modem / Tel /Fax		
ENVIRONMENT			
Working temp	+5...40 °C		
Humidity	20~93% RH @ 0~40°C (non-condensate)		
Noise	< 50bB (1m)		
COMMUNICATION			
Port USB	Linux, Windows®98 Server 2016, and Windows®98/2000/2003/XP/Vista/2008/Windows®7/Windows®8/ Windows®10/, UPSmart software		
Slot for 1 external card	Not in standard model		
	SNMP or AS400 card is possible only with special service before first shipment. The special slot need to put in by official service team.		
REGULATIONS			
Conversion type:	VI-SS-111		
LVD:	EN62040-1:2008+A1:2013		
EMC:	EN62040-2:2006		

* Charger current need to be suitable with external battery bank capacity according to rule: $I = 0,1 * C$, too big charger current can damage battery and can cause fire.

Mechanical:



MODEL	TS1-LI-1k0-MC-BC24	TS1-LI-2k0-MC-BC48	TS1-LI-3k0-MC-BC48
EAN	 5 9 0 2 1 3 5 1 2 4 8 9 5	 5 9 0 2 1 3 5 1 2 4 9 0 1	 5 9 0 2 1 3 5 1 2 4 9 1 8
Rear panel			