

# TS1-LI-MC standard series

## 1-3kVA PF=0,8



TS1-LI-1k0-MC-LCD-2x7

TS1-LI-2k0-MC- LCD-3x9


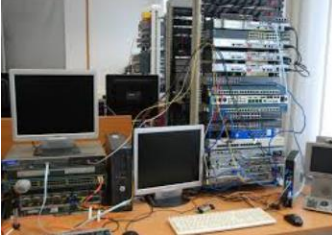




TS1-LI-3k0-MC- LCD-4x9



## Features

<ul style="list-style-type: none"> <li>• Pure sine output</li> </ul>	<ul style="list-style-type: none"> <li>• Internal AGM batteries</li> </ul>
<ul style="list-style-type: none"> <li>• Line-interactive conversion – topology VI-SS-111 High-frequency</li> </ul>	<ul style="list-style-type: none"> <li>• DSP control porcesor</li> </ul>
<ul style="list-style-type: none"> <li>• Tower standalone</li> </ul>	<ul style="list-style-type: none"> <li>• Input power factor – 0,95</li> <li>• Output power factor – 0,8</li> </ul>
<ul style="list-style-type: none"> <li>• Voltage independent</li> </ul>	<ul style="list-style-type: none"> <li>• Fan auto-regulated</li> </ul>
<ul style="list-style-type: none"> <li>• Battery auto-charge</li> </ul>	<ul style="list-style-type: none"> <li>• Charging in OFF mode</li> </ul>
<ul style="list-style-type: none"> <li>• Autodiagnostic, communication</li> </ul>	<ul style="list-style-type: none"> <li>• Cold start</li> </ul>
<ul style="list-style-type: none"> <li>• User menu interface</li> </ul>	<ul style="list-style-type: none"> <li>• USB transmision protocol</li> </ul>
<ul style="list-style-type: none"> <li>• Generator allowed</li> </ul>	<ul style="list-style-type: none"> <li>• External battery socket</li> </ul>

## Typical application

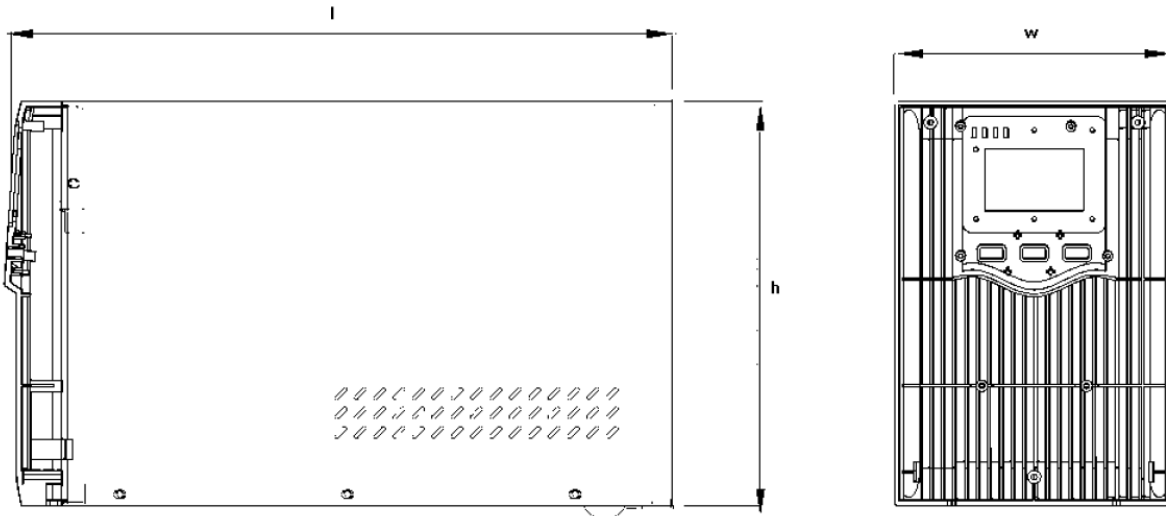
		
<b>Telecommunication systems</b>	<b>Measurments</b>	<b>Industrial</b>
		
<b>Network systems</b>	<b>Offices</b>	<b>Drives</b>




**Technical parameters**

MODEL	TS1-LI-1k0-MC- LCD-2x7	TS1-LI-1k5-MC- LCD-2x9	TS1-LI-2k0-MC- LCD-3x9	TS1-LI-3k0-MC- LCD-4x9
Rated power (reactive/active)	1000VA/800W	1500VA/1200W	2000VA/1600W	3000VA/2400W
<b>INPUT</b>				
Input voltage	Rated: 230VAC (208V / 220V / 230V / 240V) Input voltage range: 175Vac – 290Vac Bypass: -25%...+15% rated			
Input voltage frequency	Rated: 50/60Hz Auto-select Range: 42-57Hz			
Power factor	PF >0,95			
Connector:	Socket IEC C14			Socket IEC C20
<b>OUTPUT</b>				
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 3pcs			IEC C13 6pcs
Efficiency	Max 75%	Max 80%		Max 85%
PF	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) Inverter mode: 110% for 60sek, 125% for 10sek, 150% for 5sek (shut down)			
<b>BATTERIES</b>				
Type:	Lead-acid VRLA AGM, voltage 12V			
Charger current:	1A			
Montage:	Internal			
Battery q-ty :	2 x 7Ah12V	2 x 9Ah12V	3 x 9Ah12V	4 x 9Ah12V
Charger voltage:	24Vdc		36Vdc	48Vdc
Charging time:	5-8h			

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Rated power (reactive/active)	1000VA/800W	1500VA/1200W	2000VA/1600W	3000VA/2400W
<b>BACKUP TIME</b>				
Backup for 100% load	2min	2min	2min	2min
Backup for 75% load	3min	3min	3min	3min
Backup for 50% load	7min	5min	7min	5min
Backup for 25% load	17min	17min	17min	17min
Additional battery pack:	1szt KU-BAT-2URT- 2x7-BC24	1szt KU-BAT-2URT- 2x9-BC24	1szt KU-BAT-2URT-3x9- BC36	1szt KU-BAT-2URT-4x9- BC48
<b>DIMMENSION &amp; WEIGHT</b>				
Weight netto/brutto (kg)	12,2/13,2 kg	14,2/15,2 kg	18,5/19,8 kg	28,1/30,2 kg
Dimmension w/l/h. (mm)	144/345/215 mm		144/410/215 mm	190/467/335,5 mm
Package w/l/h (mm)	236/427/316 mm		236/492/316 mm	320/592/462 mm
Pallets	60pcs		60pcs	24pcs
<b>PROTECTIONS</b>				
Full protection	Overload, short-circuit, overvoltage, temperature, overdischarge, deep discharge			
Sockets	Modem / Tel / Fax			
<b>ENVIRONMENT</b>				
Working temp.	+5...40 °C			
Humidity	20~93% RH @ 0~40°C (non-condensated)			
Noise	< 50dB (1m)			
<b>COMMUNICATION</b>				
USB port	Linux, Windows®98 Server 2016, and Windows®98/2000/2003/XP/Vista/2008/Windows®7/Windows®8/ Windows®10/, UPSmart software			
Slot (1pcs)	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.			
<b>STANDARDS</b>				
Conversion type:	VI-SS-111			
LVD:	EN62040-1:2008+A1:2013			
EMC:	EN62040-2:2006			

## DIMMENSIONS:



MODEL	TS1-LI-1k0-MC-LCD- 2x7	TS1-LI-1k5-MC-LCD- 2x9	TS1-LI-2k0-MC-LCD- 3x9	TS1-LI-3k0-MC-LCD- 4x9
EAN	 5 9 0 2 1 3 5 1 1 8 4 2 9		 5 9 0 2 1 3 5 1 1 7 3 2 3	 5 9 0 2 1 3 5 1 1 7 3 3 0
Rear panel	