



## MOBILE RECTIFIERS

# I1400T48P and I1400T60P

Mobile rectifiers *I1400T48P* and *I1400T60P* are used for supplying power to telephone exchanges and other telecom devices in the case of primary power supply system fatal failure. Maintenance service may install mobile rectifier to power telecom equipment until failed power supply system is repaired.

Mobile rectifiers are high performance devices featuring low disturbances, low noise and short response time, fulfilling all requirements set before uninterruptable power supply systems for telecommunication equipment.

I1400T rectifiers are designed for 24 hours autonomous operation, enabling the application in remote locations without crew. May operate with or without batteries.

Rectifier units *I1400T* are manufactured for 48V and 60V output voltage versions. Upon customer request other output voltages are available. Output power is 1400 W.

### Features

- 1400 W output power - 48 V, 25 A or 60 V, 20 A
- Fulfils relevant international standards and recommendations: *ITU-T, ETSI, ISO, IEC...*
- Power factor corrected  $> 0,98$
- Low psophometric noise  $< 1$  mV
- High efficiency
- High reliability
- Does not require preventive maintenance
- High frequency switchmode power conversion
- Small volume and weight
- Self standing device
- Parralel operation of several units by direct output connection

### Applications

- Emergency power supply of telecom equipment
- Accu-batteries maintenance
- Emergency power supply of computer and other professional electronic equipment
- Temporary power supply of telecom equipment before installation of uninterruptable power supply system
- Powering telecom and other electronic equipment at fairs, demonstrations, conferences and other

### Benefits

- Extremely robust, resistant to harsh working conditions, specially to damaging input disturbances
- Based on rectifier units I1400T from S3000 system - verified solutions, simplified maintenance
- Large LED display with switch for output current or output voltage
- Fully *plug-in* installation
- Extended input voltage range available on request
- Natural convection cooled
- Simple adjustment using front panel potentiometer

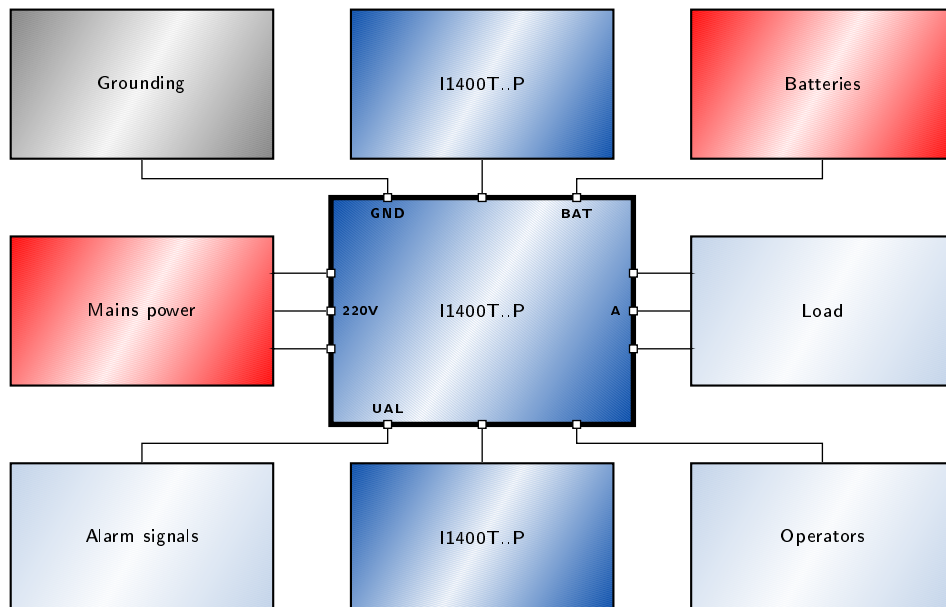
Easy to handle and install and suitable for transport, mobile rectifier *I1400T..P* is unavoidable in equipment set of every field maintenance team for telecommunication networks or complex electronic systems. Exceptional resistance to mains voltage disturbances and high reliability enable operation in harsh conditions.



Mobile rectifiers *I1400T48P* and *I1400T60P* are modern, highly professional devices, featuring exceptional electrical characteristics, simple handling and high reliability.

Mobile rectifiers *I1400T48P* and *I1400T60P* are designed for international market and are available in english, russian and serbian versions.

Packaging and accessories set includes elegant two-part box, containing mains cable and load cables with robust crocodile terminations. Accessory set for parallel connection of several mobile rectifiers to achieve higher output power is also available.



## Technical data

### Input data

Mains voltage  $V_u$  220/230  $V_{eff}$   
 Mains frequency 47-63 Hz  
 Mains voltage range -15% до +10%  
 Mains distortion 30%  
 Input current 7 A @  $V_{nom}$   
 Inrush current < 15 A  
 Power factor ( $\cos \varphi$ ) > 0,98

### Input protection

Input fuse fast 10 A  
 Overvoltage protection 253  $V_{ac}$   
 Undervoltage protection 187  $V_{ac}$   
 Surges protection varistor  
 Fast overvoltage protection yes

### Packaging and accessories

Mains cable 10 m  
 Load cables 10 m

### Output data

Output power 1410 W  
 Power density 134 W/dm<sup>3</sup>  
 Voltage regulation better than 1%  
 Response time 1 msec  
 Voltage spikes < 2  $V_{p-p}$   
 Psophometric noise < 1 mV<sub>ac</sub>  
 Noise 10Hz-450kHz < 25 mV  
 Widwband noise < 10 mV<sub>ac</sub>/MHz

### Output protection

Short circuit protection yes  
 Short circuit startup yes

### Output data per version

Feature	48	60	Unit
Nominal voltage	48	60	V-
Voltage range	49..57	61..72	V-
Nominal current	25	20	A-
Current limit	26	21	A-
OV protection	57	72	V-
UV protection	39	48	V-

### General data

Efficiency > 0,9  
 Temperature range 0°C .. 45°C  
 Storage temperature -10°C .. 75°C  
 Relative humidity 0 до 90%  
 Operating frequency 50 kHz  
 Measure/display accuracy ±1%  
 Service life 40 years  
 Spare parts and repair 10 years

### Other protections

Overtemperature protection yes  
 Main switch protection yes

### Outline dimensions and weight

I1400T..P	unpacked	packed	Unit
Height	300	300	mm
Width	130	150	mm
Length	400	450	mm
Total weight	8,5	10,5	kg

## Ordering codes

Product	Code
Mobile rectifier I1400T..P	E08-IJPA0301-V△△-◇◇
Mobile rectifier I1400T..P with packaging and accessories	E08-IJPA0301-A△△-◇◇
Packaging and accessories for I1400T..P	E11-IJPA0301-A-◇◇
User documentation for I1400T..P	E08-IJPA0301-D01-◇◇
Set for parallel connection I1400T..P	E11-IJPA0301-P-◇◇

△△	voltage	◇◇	language
48	48 V-	SR	serbian
60	60 V-	RU	russian
		EN	english

© 2006 GVS ko Llc All rights reserved. • GVS reserves the right to improve, enhance and modify the features and specifications of the GVS products without prior notice. • GVS logo and trademark are the property of GVS ko.



GVS ko - research, development, manufacturing & engineering company in electronics  
 Product line  
 High capacity digital switching systems  
 Uninterruptable power supply systems  
 Special purpose test & measurement equipment  
 Special purpose communications equipment



Headquarters  
 Bulevar kralja Aleksandra 403-405  
 11050 Belgrade, P.O.Box 80  
 Serbia (Yugoslavia)  
 Phone: +381 11 380 7600  
 Fax: +381 11 3808 698  
 e-mail: ko@gvs.co.yu  
 http: www.gvs.co.yu

