



## Mini UPS 380V DC 7500W Compact, efficient and intelligent

### Features

This “mini version” of our G3 380V DC UPS is designed to support smaller installations of telecom, servers or communication infrastructure equipments. By using higher voltage and reducing the electronics involved, this DC power system will provide the highest possible system reliability.

- Energy Efficiency
- High System Reliability
- High Power Quality

## System Components

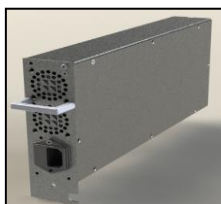


### Distribution/ Battery fuse / Power Control Unit

The battery fuse module is integrated with an intelligent power control unit.

Features:

- 1-2 x 25A Battery fuses
- 1-n x 6-25A Distribution fuses
- Remote management
- Embedded Web-server
- TCP/IP protocols (no specific software needed)
- Alarm monitoring
- Remote battery management and testing
- Programmable alarms and logic functions
- Proactive off-site monitoring and control



### Rectifier Module

The power system utilizes plug-in rectifier modules with active PFC (power factor correction).

Features:

- LED indication for rectifier status.
- Thermal control and shutdown.
- Input over voltage disconnection with automatic reset.

Model	Voltage (Output)	Power (Output)	Current (max.)
RE 2500-380	380 V DC	2500 W	9A

## Configurations

### Typical system configuration:

System capacity:

- 7.5 kW (3 Rectifier modules)
- N+1 configuration

Battery capacity / backup time:

- 7 Ah / 12Ah / 17Ah
- 30-120 minutes backup time  
(load dependant)

Input:

- 3 x 230 Vac
- Max. input power: 8 kW

Output:

- 380 V DC

Mechanical dimensions:

(without batteries/transformer)

- Width 19 inch
- Height 4U
- Depth 400 mm
- Cable entry: Front



### Following optional functions are available:

- DC/DC converters (48VDC)
- External distribution units (fused/unfused)
- Power strips
- Intelligent distribution modules with kWh meters
- etc.

	<b>SY7500</b>	
<b>Input</b>		
Input voltage, nominal	230 Vac	
Input voltage range	195 – 264 Vac	
Input frequency	47 – 63 Hz	
Input fuse	12A	
<b>Output</b>		
Output power, nominal	2500W	
Output voltage, nominal	380V	
"No Charge" voltage	310V (during battery test)	
Overshoot/Undershoot	0% at turn on/off	
Minimum load	30W / module	
Ripple, 2xf	0.045%	
Short circuit current	<12A / module	
Short circuit protection	Yes	
Over voltage protection	Yes	
<b>Other technical data</b>		
Efficiency at 20 – 90 % load	97%	
Operation temperature	-25°C => +55°C	
Fan cooled (front to back)	2x redundant fans	
Thermal disconnection	Yes	
Fault indication	LED "green" to "no"	
Audible noise	<60 dBA	
Safety	EN/IEC 60950, class 1	
EMC	EN 61000-3-2 /-3-4 class B	
Harmonics	EN 61000-3-2	
<b>Mechanical data</b>		
Weight	6-9 kg	
Width	19 Inch	
Height	4U	
Depth	400mm	
Enclosure	IP 20	

\*All system data preliminary

## Description

The mini UPS 380V DC is a compact and modular system designed to support the new generation of computer based communication networks. Every component is designed for highest possible reliability and energy efficiency.

The mini UPS 380V DC is a n +1 system dimensioned for feeding the entire load, 1 or 2 battery strings can be connected to each system. Each string has its own battery fuse and monitoring function; this gives high system reliability and facilitates battery maintenance as one of the battery strings can be disconnected without disruption of operation.

The system loads the 3-phase AC network symmetrically with pure sine wave current, without causing any current in neutral wire, creating very high power quality without harmonics or pulsating magnetic fields in the installation.

A large number of standard (AC specified) ICT equipment is tested with the DC UPS.

**Note!** Before connecting unverified servers, routers, switches, PC: s, etc. to the DC UPS, please contact Netpower Labs.

## Summary

- Simple installation and operation
- Highest possible reliability
- The power system is based on hot swappable rectifier modules, output power **2500W** per module.
- Power management system handles all control and monitoring in the system using TCP/IP based protocols.
- International standards compliant

**PATENTED**