

Securys UPS - AC UPS from 10 to 30 kVA



Securys UPS - AC UPS from 10 to 30 kVA

The Chloride's Securys family of static uninterruptible power systems (UPS) is available to provide clean, reliable and continuous power to the various single-phase loads of the factory level.

Today's fast changing process automation industry needs a new quality of power. With the increasing number of microcontrollers comes a huge quantity of transferred data. The threat is a complete manufacturing process shutdown if a continuous power is not provided.

The range

Chloride's Securys UPS is available from 10 to 30kVA in single-phase output versions. The batteries, associated in an external cabinet, are available in a wide range of autonomies, from 10 minutes to 2 hours.

Leading technology

Patented Vector Control technology increases power component performance and enables active conditioning of the load. Vector control provides:

- Improved performance for specific unbalanced load conditions
- Perfect load distribution between parallel connected UPS
- Improved fault clearing capacity for downstream short circuits
- High efficiency through reduced installation times and ease of servicing.

Active input Power Factor Correction (PFC) is another key feature of the Securys. This means units only absorb active power, through an input power factor >0.95.

Securys also features Total Harmonic Distortion (THDi) correction. Securys corrects input THDi to less than 10%, without requiring additional options, allowing perfect compatibility with upstream distributions and preserving UPS power conversion efficiency.

Features and benefits

Securys UPS is provided with many standard features:

- Three-phase to one-phase UPS to protect the processing loads
- On-line double conversion design to deliver a clean and reliable power at all time
- Paralleling capability up to 8 units to ensure redundancy of the system
- Integrated output transformer to provide galvanic insulation between the input and the output of the UPS
- Vector Controlled PWM (PulseWidth Modulation) of IGBTs for improved performances
- Graphical LCD user interface to help the user clearly identify the UPS status
- Advanced battery care function to maintain optimum battery condition via regular status checks and battery test function
- Event-log function to record the last 100 events and therefore ease the diagnostic.

Communication

Securys UPS uses intuitive multilingual digital graphic control, meaning system status, measurements and alarms are accessible from the front panel of the UPS.

The embedded 'Event Log' function allows the user to trace the last 100 events.

RS232, RS485 and 5 voltage-free contacts allow the monitoring of UPS on SCADA systems.

Application

Securys provides a secure power infrastructure for a wide range of applications including:

- Process control (automated production lines)
- Automation (programmable logic controllers...)
- SCADA systems (supervisory control and data acquisition)
- DCS systems (distributed control systems).

Secure Power Always

In order to reach the highest level of business continuity, Chloride offers a range of maintenance plans, which will:

- Help deliver reliability to your load
- Increase the lifetime of your power protection equipment
- Optimise your capital expenditure
- Provide risk management at a fixed cost
- Provide a pro-active approach to disaster recovery.

For more information please contact your local Chloride sales office.

Delegate your power management to the experts.

Securys UPS - AC UPS	10	15	20	30
TECHNICAL CHARACTERISTICS				
INPUT				
Nominal voltage	400 V +/- 10% (380 V, 415) three phase + solidly earthed neutral			
Nominal frequency	50Hz (60 Hz) +/-10%			
Input power factor @ nominal input voltage	>0.95			
Input current distortion (THDi)	<10%			
Nominal reserve voltage	230V (220 V, 240 V) +/- 2% (0.2% to 6% selectable)			
BATTERY				
Autonomy (min)	10 -30 - 60 -120			
Type	Sealed lead-acid, recombination nickel-cadmium			
OUTPUT				
Nominal AC output voltage	230 V (220 V, 240 V)			
Nominal frequency	50 Hz (60 Hz)			
Output power factor	0.8			
Output voltage stability for load variation 0-100%	Static: +/- 1% Dynamic: complies with IEC/EN 62040-3 Class 1			
Frequency stability with internal quartz oscillator with mains synchronism	0,1% ±2% (adjustable to ±1% ; 3% ; 4%)			
Harmonic voltage distortion (THDu)	<3% (linear load) <5% (100% non linear load—CF 3/1)			
Overload	125% for 10 minutes / 150% for 1 minute			
Short-circuit capability	250% IN			
Load power factor	0,5 lagging to 0,9 leading			
Output crest factor admissible	3:1 without derating			
GENERAL				
Operating temperature (°C)	0-40 as per IEC 62040-3			
Relative humidity (non condensing)	<90%			
Operating altitude	1000 m			
External protection	IP42			
Frame colour	Light grey RAL7035 textured semi-gloss			
DIMENSIONS AND WEIGHT				
Height (mm)	1980			
Weight (mm)	600			
Depth (mm)	804			
STANDARDS				
Construction and safety	IEC 62040-1-2, IEC 60950			
Performance and topology	IEC 62040-3			
Design and manufacture	ISO 9001:2000, ISO 14001:2004, IEC 60146			
EMC	IEC 62040-2 RS class			
Identification marking	CE			
OPTIONS				
Diagnosis	LIFE.net kit, PPV is monitoring software			
Electrical	Paralleling kit, Anti-condensation heater			
Battery	Battery earth fault detection, Battery protection (MCCB) box			
Mechanical	Top cable entry			

This publication is issued to provide outline information only and is not deemed to form any part of any offer and/or contract. The company has a policy of continuous product development and improvement, and we therefore reserve the right to vary any information without prior notice. MK44LUSKSEC Rev. 1.06/2008

This product may differ slightly from the product photograph on the front cover.

Chloride Industrial Systems
Chloride France S.A.

30 avenue Montgolfier - BP90
69684 Chassieu Cedex
France

T +33 (0) 4 78 40 13 56

F +33 (0) 4 78 90 58 90

E industrial.sales@chloridepower.com

CHLORIDE
SECURE POWER

www.chloridepower.com

Closest Chloride Contact in South East Asia:

CHLD Singapore Pte Ltd

2 Corporation Road
#03-07 Corporation Place
Singapore
618494

T +65 6481 4776

F +65 6481 0552

E singapore.sales@chloridepower.com

www.chloridepower.com.sg

For a full list of contacts please visit our website at www.chloridepower.com

