

AC Power for
Business-Critical Continuity™

Chloride 90-NET from 250 to 800 kVA

Uninterruptible Power Supply



CHLORIDE


EMERSON™
Network Power

Chloride 90-NET from 250 to 800 kVA

The Chloride 90-NET family is available from 250 to 800 kVA and is compatible with a wide range of battery autonomies.

The Range

Aspects of Chloride 90-NET's premium class performance are:

- Single-cabinet industrialization up to 500 kVA and dual cabinet for 600 and 800 kVA, saving floor space and allowing for speedy commissioning
- Low input distortion, featuring THDi<5% without the need for bulky and expensive options and bringing significant benefits in terms of reliability
- High conversion efficiency (up to 97% allowing reduction in operating costs
- Capability of powering state-of-the-art IT loads with high PF, depending on the UPS rating.

Flexibility for Customized Solutions

Chloride 90-NET can be fully adapted to meet diverse requirements in terms of battery backup time, power, redundancy and harmonic control.

Chloride 90-NET is fully compatible with Chloride CROSS static switch assembly. Chloride CROSS provides additional protection against potential problems in the power distribution system by immediately switching to reserve in the event of a fault. Other options include:

- Galvanic isolation transformer
- Flexible paralleling configurations
- Wide remote connectivity capabilities (TCP/IP, SNMP, J-Bus, Profibus, RS232 etc.)

Leading Technology

Patented Vector Control technology is employed to increase the performance of power components and enable active conditioning of the load, bringing the following benefits:

- Improved performance for specific unbalanced load conditions
- Perfect load sharing between parallel connected UPS systems (less than 5% tolerance of any system output load fraction from 0 to 100%)

- Improved fault clearing capacity (with a peak of 200% of the inverter nominal current up to 5s) for downstream short circuits.
- Reduced ownership costs through quick installation times and reduced servicing.

Reliability

Chloride 90-NET uses intelligent double conversion technology.

This architecture combines the secure power provided by traditional double conversion with the efficiency provided by digital interactive technology.

Up to eight Chloride 90-NET units may be connected in parallel, allowing you to customize and adapt our solution to your changing load requirements.

Chloride 90-NET is available in the following configurations:

- Distributed Parallel; increasing power of the supply system whilst controlling costs
- Centralized Parallel; using an additional common output cubicle and providing a standby reserve line for the whole system
- HFC (High Fault Clearance) Parallel; enabling simultaneous switching on of all available standby reserve lines, with a downstream fault clearing capacity that is four times higher.

Communication

The system is fitted with a twin serial port, a slot bay for expansion cards and a computer interface.

A graphical liquid crystal display provides clear multilingual information on operating parameters.

Chloride 90-NET is fully compatible with Chloride's suite of connectivity solutions which allows users to preserve critical data and perform a controlled shutdown of equipment in the event of a power disturbance.

Remote Diagnosis

The Chloride 90-NET family is fully compatible with Chloride LIFE[®].net, a real-time UPS remote diagnostic tool. Chloride LIFE[®].net is the nearest you can get

to having an engineer permanently onsite. This service provides:

- Continuous real-time monitoring of your UPS
- Automatic transmission of a daily status report
- Real-time diagnosis of all UPS operational parameters
- A remote fix capability
- Monthly UPS operational status reports
- Technical advice regarding the operation of your UPS
- Detailed operational history of the full service LIFE of the UPS system
- Unique ETS function for trouble shooting of the most common operating anomalies
- Power Quality Monitoring to effectively monitor power disturbance trends.

Applications

Chloride 90-NET provides secure power infrastructure for a wide range of applications including:

- Commercial processing systems
- Industrial automation
- Broadcasting and telecommunications systems
- Data centers.

Secure Power Always

We are pleased to offer a range of maintenance plans which will:

- Help deliver reliability to your load
- Extend the life of your power protection equipment
- Optimize your capital expenditure
- Provide risk management at a fixed cost
- Provide a proactive approach to disaster recovery.

Contact our local sales office for more information.

Delegate your power management to the experts.



Technical Characteristics

Rating	250	300	400	500	600	800
Apparent nominal output power at 25° C (kVA)	275	330	440	550	660	880
Apparent nominal output power at 40° C (kVA)	250	300	400	500	600	800
Maximum output active power at 40° C (kW)	225	270	360	450	540	720
Input						
Nominal mains input voltage/voltage tolerance (V)	400 ± 15% (380 V, 415 V selectable) three-phase					
Minimum input voltage w/o battery discharging	-20%					
Nominal bypass input voltage/voltage tolerance (V)	400 ± 10% (380 V, 415 V selectable) three-phase + neutral					
Nominal input frequency/frequency tolerance (Hz)	50 ± 10% (60 Hz selectable)					
Input current distortion at maximum input power THD (%)	<5					
Output						
Nominal output voltage (V)	400 (380 V, 415 V selectable) three-phase + neutral					
Output voltage stability by load variation 0 - 100% (%)	± 1					
static	Complies with IEC/EN 62040-3, Class 1					
dynamic	Complies with IEC/EN 62040-3, Class 1					
Output frequency (nominal) (Hz)	50 (60 Hz selectable)					
Output frequency variation (%)	± 0.75 (1.5, 2.5, 6.0 selectable)					
with mains synchronization	± 0.05					
with own reference	± 0.05					
Inverter overload capacity	125% for 10 min., 150% for 1 min.					
Compatibility with loads	Any power factor (leading or lagging) up to 0.9 (standard setting 0.8); crest factor up to 3:1					
Automatic adjustment of nominal power with temperature	110% at 25° C, 100% at 40° C					
General						
Operating temperature (°C)	0-40					
Recommended battery temperature (°C)	+15/+25					
Relative humidity (without condensation at 20° C)	<90%					
Protection level	IP 20					
Color	RAL 7035					
Noise at 1 m (dBA)	68	68	70	72	75	75
AC/AC efficiency (%)*	up to 97					
Parallel configuration	up to 8 units in modular configuration; up to 7 units plus system static switch in HFC and centralized configuration					
Dimensions And Weight						
Height (mm)	1780					
Width (mm)	1620	1620	1620	2020	3270	3270
Depth (mm)**	830					
UPS weight (kg)	1920	1920	2155	2575	3965	3965

* Conditions apply ** Without front handle (+28 mm with front handle)

Ensuring The High Availability Of Mission-Critical Data And Applications.

Emerson Network Power, a business of Emerson (NYSE:EMR), is the global leader in enabling *Business-Critical Continuity™* from grid to chip for telecommunication networks, data centers, health care and industrial facilities. Emerson Network Power provides innovative solutions and expertise in areas including AC and DC power and precision cooling systems, embedded computing and power, integrated racks and enclosures, power switching and controls, infrastructure management, and connectivity. All solutions are supported globally by local Emerson Network Power service technicians. Chloride Uninterruptible Power Supply (UPS) systems and critical power protection solutions and services protect against power outages ensuring business continuity for companies in all market segments, visit www.ChloridePower.com for more information on Chloride products and services. Learn more about Emerson Network Power products and services at www.EmersonNetworkPower.com

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

This publication is issued to provide outline information only and is not deemed to form 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.

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Emerson Network Power

The global leader in enabling Business-Critical Continuity™.

- AC Power
- Connectivity
- DC Power
- Embedded Computing
- Embedded Power
- Infrastructure Management & Monitoring
- Outside Plant
- Power Switching & Controls
- Precision Cooling
- Racks & Integrated Cabinets
- Services
- Surge Protection

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