

ИБП Chloride 80-NET - брошюра на продукцию. Юниджет

Постоянная ссылка на страницу: https://www.uni-jet.com/catalog/ibp/on-line-ibp/liebert-chloride-80-net/

Chloride 80-NETSecure Power For Mission Critical Applications 60kVA to 120kVA









A Commitment to Best-in-Class Technologies

When it comes to protecting critical infrastructures across the globe, breakthrough technology is at the heart of competitive advantage for any business. Emerson Network Power's 12 Centers of Expertise uniquely position us to provide systems and integrated solutions wherever our customers are located, meeting the world's ever-growing need for Business-Critical Continuity™ across all industries. We continually invest in research and development – and, most importantly – people with the right expertise, in order to help prepare our customers for whatever changes that may come their way. Not only are we the experts in manufacturing and designing great technology, but we are the largest provider of services for critical infrastructures anywhere in the world. Emerson Network Power's services are broad enough to fit the entire range of equipment in your critical space, and we specialize in the latest tools and procedures you can depend on.

Grid-to-chip technologies and expertise that keep data centers, telecom networks, digital healthcare providers / facilities and businesscritical applications up and running while maintaining energy efficiency

- 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

Emerson Network Power Global Services Coverage

- Over 150 service locations worldwide
- 2,000 certified professionals with knowledge and expertise in local safety, environmental and labor specifications
- Employees: About 43,000

Emerson Network Power Global Design Resources

- Total E&D Engineers: 3,332
- Number of PhDs:50
- Number of active patents: 1,396



Chloride 80-NET From 60 To 500 kW

Maximized active power, high efficiency and complete compatibility for modern, mission critical IT loads.

Features and Performance

- •Transformer-free design
- Full IGBT double conversion technology
- Full input Power Factor Correction (PFC) and excellent input performances:
 - PF > 0.99
 - THDi < 3%
- Automatic output power upgrade up to +10%
- High conversion efficiency (certified up to 98%)
- Hi-tech user interface for monitoring system status and performance
- Full galvanic isolation as standard built-in option.

Chloride 80-NET 60 - 500 kW Performances

Chloride 80-NET features a transformer-free design with full IGBT double conversion technology allowing it to provide extraordinary savings on installation and running costs, while at the same time providing first class load protection.

Chloride 80-NET also features a full IGBT rectifier allowing for reductions in the size of gen sets, circuit protection, cabling and transformers.

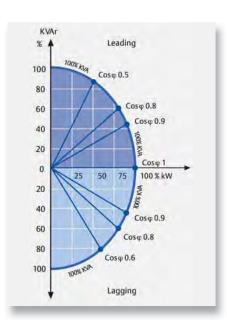
Flexibility And Compatibility

Chloride 80-NET can be fully adapted to meet diverse requirements in terms of battery backup time, power, redundancy and harmonic control.

Maximum flexibility is also ensured from:

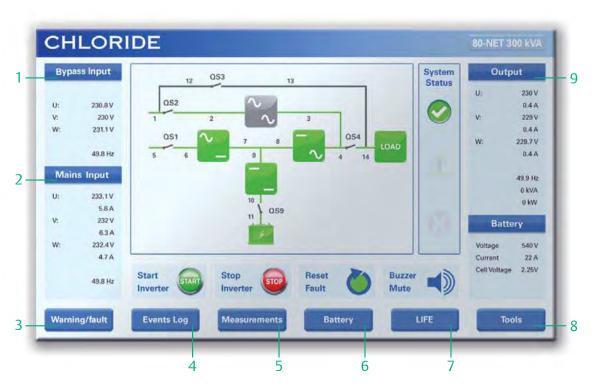
- Output Power Factor 1
- Output Power Factor diagram symmetrical respect to zero

- Permanent 100% kVA no derating with any load (lagging or leading)
- Optimum space/power ratio
- Full compatibility with static transfer switches
- Wide range of standard options including: Isolation transformer (integrated in UPS cabinet), System Bypass Switch and Synchronization Module (MBSM).





User Interface



1. Bypass Input

Voltage, and frequency measurements.

2. Mains Input

Current, voltage and frequency values of the three input phases.

3. Warning/fault

Alerts of anomalies on bypass, rectifier, inverter, booster/charger, battery and load.

4. Events log

Date and time of important UPS events, alarms and other warnings.

5. Measurements

Voltage, current and frequency values of each internal functional block.

6. Battery

Status/values including temperature, cell voltage, capacity run time and testing.

7. LIFE

Status of the Chloride LIFE®.net connections and calls.

8. Tools

LCD settings and language selection.

9. Output

Voltage, current, frequency, and battery measurements.

Sustainability And Environment

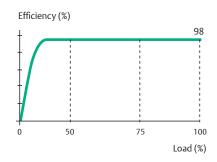
Advanced digital technology and maximum energy savings for increased performance and optimized TCO.

Chloride 80-NET's control platform incorporates double DSP and a micro-controller, allowing it to provide the most powerful control in the UPS industry. Together with the patented Vector Control technology it enables an increased performance of power converters and real time control of output power quality. This combination of technology provides the following benefits:

- Zero impact on upstream equipment
- Perfect compatibility with generators
- Enhanced performance for specific unbalanced load conditions
- Perfect load sharing for parallel configurations
- Enhanced fault clearing capacity (up to 300% of the inverter nominal current)
- Intelligent double conversion for maximum reliability and highest energy savings.

Maximum Energy Savings

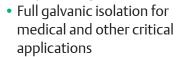
As a result of the transformerfree architecture and intelligent double conversion technology, Chloride 80-NET can achieve optimum efficiency values in all operating conditions, making it capable of reducing running costs also at partial load. This architecture also allows for reduced energy dissipation (kW) thus significantly minimizing the consumption of the cooling system.



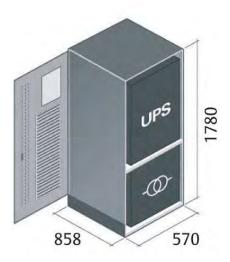
Chloride 80-NET efficiency curve

Full Galvanic Isolation

Chloride 80-NET is the only UPS in its power range that offers integrated full galvanic isolation, meaning that the isolation transformer is housed inside the UPS cabinet. This greatly reduces the footprint thus providing space saving advantages. In addition, the transformer can be connected to the input or to the output of the UPS, providing:



- Installation with two independent input sources (with different neutrals)
- Installation in distribution without neutral.



UPS with isolation transformer



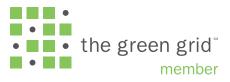
Respecting The Environment

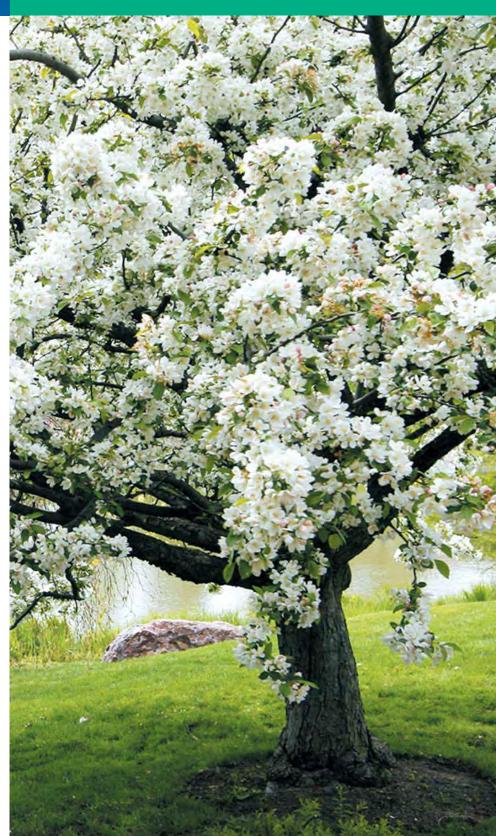
Chloride 80-NET respects the highest level of environmental standards as a result of the following features:

- Premium energy savings
- Most silent UPS in its power range
- Maximized battery life with Advanced Battery Care (ABC).

ABC allows the 80-NET series to maximize the running time of the battery by up to 50% and includes the following main battery care features:

- Ambient temperature compensated battery charger
- Automatic battery test (can be set by user at selectable intervals)
- Time compensated end of discharge voltage
- Exact determination of remaining battery life thanks to sophisticated algorithms able to analyze real operating conditions such as temperature, discharge/charging cycles and discharge depth.







Chloride LIFE®.net 24/7 Remote Diagnostic System

Chloride LIFE®.net ensures that your critical power protection system is maintained in an optimum state of readiness at all times.

Chloride LIFE®.net remote diagnostic and monitoring system provides early warning of UPS and single module alarm conditions and out of tolerances. This allows effective proactive maintenance and fast incident response, giving customers complete security and peace of mind.

Maximize Availability

Pre-Emptive Maintenance

Chloride LIFE[®].net provides early warning of more than 150 separate parameters allowing real-time diagnosis and swift identification and resolution of operating anomalies.

Minimize Downtime

Immediate Identification of Problems

Should an emergency condition arise, an engineer in the 24/7 manned service center carries out an immediate fault analysis and instigates appropriate corrective action.

Reduce Operating Costs

Superior Asset Management

Through comprehensive data collection and analysis, Chloride LIFE®.net's detailed reporting system provides valuable information on power and equipment trends, over any selected period of time.

Connectivity And Tracking

Interactive control, connectivity and Chloride LIFE®.net remote monitoring and diagnostics allow for real time tracking and fast intervention.

Communication

Chloride 80-NET features a hi-tech, 15 language user interface, for closely controlling and monitoring the system status and performance.

The UPS offers the following standard communication features:

- Voltage-free contact ports
- Digital inputs and outputs
- Two serial ports and LAN connection
- Two internal slots for Chloride LIFE®.net and connectivity options.

Hardware Connectivity

Chloride ManageUPS NET ensures the monitoring and control of the networked UPS, through the TCP/IP protocol.

Two different options permit:

 The integration of Chloride UPS with Building Monitoring and Automation Systems via MODBUS RTU, MODBUS/TCP or JBUS protocols



 The monitoring of environmental conditions where the UPS systems are installed.

Software Connectivity

Chloride MopUPS Professional provides the safe shutdown of the operating system in the event of an interruption to the load. This includes event logging and gives notifications via e-mail. Chloride ManageUPS CIO software provides a central management system for critical power infrastructures distributed within a building, campus or wide area network environment.



Hardware Connectivity



Flexibility And Security

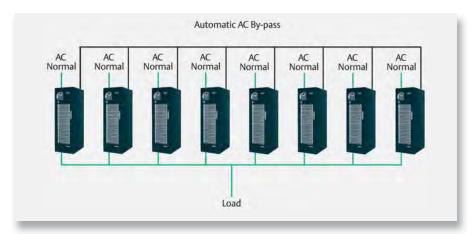
Customize and adapt your system to achieve maximum reliability, flexibility and performance.

Parallel Ready

Chloride 80-NET can be connected with up to eight units in parallel. A single Chloride 80-NET unit can be upgraded to parallel via easy to modify software settings that allow the system to be customized for the requested configuration.

Chloride 80-NET's self configuring, hot plug parallel feature means that the system automatically detects when new units have been added without the need for stopping the system. This simplified parallel process provides maximum flexibility in terms of scalability for capacity and redundancy.

The Loop CAN BUS connection, used to connect the paralleled UPS, also allows for unprecedented reliability, perfect load sharing and fast detection of any variation in status of the UPS system.



Parallel configuration of power extension and redundancy

Servicing And Security

The Chloride 80-NET's modular drawer-design allows modules to be removed easily by extracting the drawers from the front of the UPS. This architecture considerably minimizes the time needed for repairs and optimizes installation and serviceability.

Each UPS will be equipped with an ID card, including all UPS working parameters. This card, univocally related to the UPS, shortens UPS "off time" in the case that the control board needs to be replaced.



ID card

Chloride 80-NET Specifications

Technical Characteristics							
Rating (from 60 - 120 kVA)	60	80	100	120			
Output active power at 40° C (kW)	60	80	100	120			
Apparent nominal output power at 40° C (kVA)	60	80	100	120			
Apparent nominal output power at 25° C (kVA)	66	88	110	132			
Input							
Nominal primary mains input voltage/voltage range (V)*	400 (250 to 460), three phase + neutral						
Nominal bypass input voltage/voltage tolerance (V)	$400 \pm 10\%$ (380 V, 415 V selectable) three phase + neutral						
Nominal input frequency/frequency tolerance (Hz)	50 ± 10% (60 Hz selectable)						
Input current distortion (THDi) (%)	⋖3						
Primary input Power Factor	>0.99						
Output							
Nominal output voltage (V)	400 (380 V, 415 V selectable) three phase + neutral						
Output voltage stability by load variation 0 - 100% (%) - static - dynamic	± 1 Complies with IEC/EN 62040-3, Class 1						
Nominal output frequency (Hz)	50 (60 Hz selectable)						
Output frequency variation (%) - with mains synchronization - with internal reference	± 1 (2, 3, 4 selectable) ± 0.1						
Inverter overload capacity	125% for 10 min., 150% for 1 min.						
Compatibility with loads	Any power factor (leading or lagging) up to 1 without output derating; crest factor up to 3:1						
Automatic adjustment of nominal output power with temperature	110% at 25°C, 100% at 40°C						
General							
Classification according to IEC/EN 62040-3	VFI-SS-111						
Operating temperature (°C)	0 - 40						
Relative humidity (without condensation at 20°C)	<95%						
Protection level	IP 20						
Frame Color	RAL 7016						
Noise at 1 m (dBA)*	62	62	65	65			
AC/AC efficiency (%)*	up to 98%						
Parallel configuration	up to 8 units						
Dimensions And Weight							
Height (mm)	1780						
Width (mm)	570	570	845	845			
Depth (mm)	858						
UPS weight (kg)	270	270	380	380			
A & June 1							

^{*} Conditions apply

Technical Characteristics							
Rating (from 160 - 500 kVA)	160	200	300	400	500		
Output active power at 40° C (kW)	160	200	300	400	500		
Apparent nominal output power at 40° C (kVA)	160	200	300	400	500		
Apparent nominal output power at 25° C (kVA)	176	220	330	440	550		
Input							
Nominal primary mains input voltage/voltage range (V)*		400 (250 to 460), three phase + neutral					
Nominal bypass input voltage/voltage tolerance (V)		$400 \pm 10\%$ (380 V, 415 V selectable) three phase + neutral					
Nominal input frequency/frequency tolerance (Hz)		50 ± 10% (60 Hz selectable)					
nput current distortion (THDi) (%)		⋖					
Primary input Power Factor		>0.99					
Output							
Nominal output voltage (V)		400 (380 V, 415 V selectable) three phase + neutral					
Output voltage stability by load variation 0 - 100% (%) - static - dynamic	± 1 Complies with IEC/EN 62040-3, Class 1						
Nominal output frequency (Hz)	50 (60 Hz selectable)						
Output frequency variation (%) with mains synchronization - with own reference	± 1 (2, 3, 4 selectable) ± 0.1						
nverter overload capacity		125% for 10 min., 150% for 1 min.					
Compatibility with loads		Any power factor (leading or lagging) up to 1 without output derating; crest factor up to 3:1					
Automatic adjustment of nominal power with temperature	110% at 25°C, 100% at 40°C						
General							
Classification according to IEC/EN 62040-3	VFI - SS - 111						
Operating temperature (°C)	0 - 40						
Relative humidity (without condensation at 20°C)	<95%						
Protection level	IP 20						
rame Color	RAL 7016						
Noise at 1 m (dBA)*	67	67	69	70	71		
AC/AC efficiency (%)*			up to 98%				
Parallel configuration		up to 8 units					
Dimensions And Weight							
Height (mm)			1800				
Width (mm)	975	975	1675	1675	1900		
Depth (mm)			858				
UPS weight (kg)	495	590	1000	1160	1300		
* Conditions apply							

^{*} Conditions apply

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

About Emerson Network Power

Emerson Network Power, a business of Emerson (NYSE:EMR), is the world's leading provider of critical infrastructure technologies and life cycle services for information and communications technology systems. With an expansive portfolio of intelligent, rapidly deployable hardware and software solutions for power, thermal and infrastructure management, Emerson Network Power enables efficient, highly-available networks.

Learn more at www.EmersonNetworkPower.Asia.

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