

CHLORIDE

Secure Power Always

80-NET_{MPR} from 30 to 40 kVA



Uninterruptible power supply

80-NET_{MPR} from 30 to 40 kVA

Chloride's 80-NET_{MPR} family, available from 30 to 40 kVA, delivers unique advancements in engineering and security and is ideal to guarantee reliability and secure power, even under the most difficult conditions.

Real performances in real ratings, 30-40kVA

80-NET_{MPR} offers the most secure and flexible system architecture together with intelligent double conversion. It also combines the most efficient load protection barrier, provided by traditional double conversion, with the maximum efficiency provided by digital interactive technology.

The main features of the 80-NET_{MPR} are:

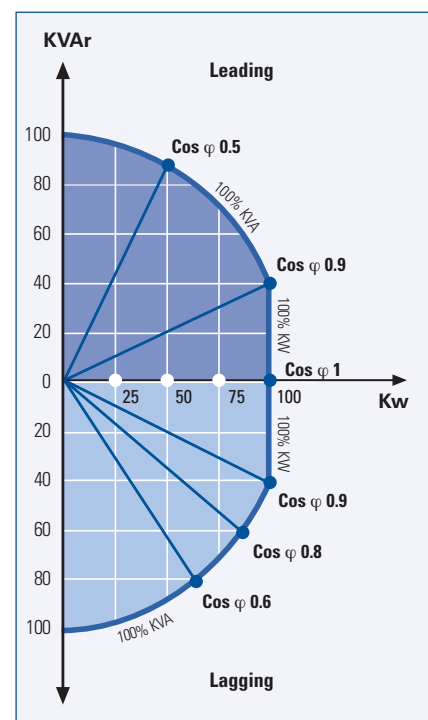
- Transformer free
- IGBT double conversion technology
- Excellent input performances:
 - PF > 0.99
 - THDi < 3%
- Inverter overload capability:
 - 125% for 10 mins
 - 150% for 1 min
- Automatic power upgrade up to +10% @ 25°C
- High conversion efficiency (certified up to 98%)
- Total compatibility with any installation irrespective of the PF (leading or lagging)

Flexibility and compatibility for customised solutions

80-NET_{MPR} can be fully adapted to meet diverse requirements in terms of battery backup time, power, redundancy and harmonic control.

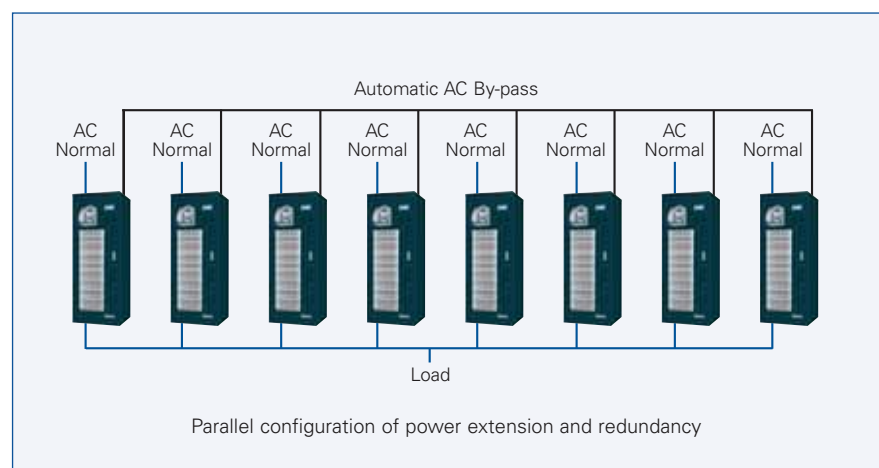
Maximum flexibility is also ensured from:

- Output Power factor diagram symmetrical respect to zero, up to 0.9 lagging and leading
- Optimum space-power ratio
- Wide range of standard options including: Isolation transformer (integrated in UPS cabinet), System Bypass Switch and Synchronisation module (MBSM).
- Full compatibility with CROSS, Chloride's static transfer switch. CROSS provides additional protection against potential interruptions in the power distribution system as it provides, immediate switching to an alternative source in the event of a fault.



Parallel ready UPS

The 80-NET_{MPR} is parallel ready and can be connected in up to 8 units in parallel without the need for an additional parallel kit, allowing maximum reliability and flexibility. A single unit can be upgraded to a parallel one through a software licence code which is univocally related to the UPS, allowing Chloride to customize and adapt the total power solution. As a result of a Loop Bus connection, used to connect all parallel UPS, communication between the UPS has no single point of failure.





80-NET_{MPR} represents the best solution, both cost effective and environmental friendly, for easy installation, control and operation of data centre applications and in a wide range of sectors, including finance, manufacturing and retail.

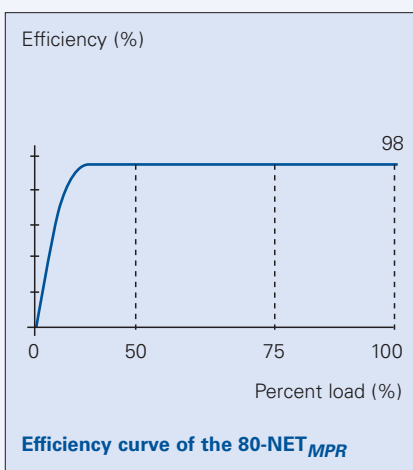
Chloride employs patented Vector Control technology (95 P3875, 95 P3879 and 96 P3198) to increase the performance of the power converters, enabling active conditioning of the load and to provide the following benefits:

- Optimal trade-off between harmonic rejection and efficiency
- Enhanced 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%)
- Enhanced fault clearing capacity (with 300% of the inverter nominal current for 10ms and 150% up to 5s) for downstream short circuits
- Considerable cost savings throughout its service life through easy installation times and reduced servicing.



Maximum energy savings

As a result of the transformer free architecture, 80-NET_{MPR} can achieve optimum efficiency values, allowing energy savings and reducing the need for air conditioning. It has excellent efficiency in every working condition, even at partial loads that are the most common working conditions, providing great benefits for the customers.



Serviceability and security

The new 80-NET_{MPR} is designed for easy installation and serviceability thanks to the drawer-design, making it a full modular service solution and considerably minimizing the time needed for repairs. All power modules can be removed by extracting the drawers from the front of machine.

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 where the control board needs to be replaced.



Environmental respect

80-NET_{MPR} meets Chloride's objective to acknowledge its duty towards providing the highest level of environmental standards and encouraging environmental awareness, as a result of the following features:

- Premium energy savings
- RoHs compliance
- Extended life battery with ABC (Advanced Battery Care)

Using advanced battery care (ABC), the 80-NET_{MPR} series will increase battery life 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 and charging cycles and discharge depth.



Interfaces

Communication



80-NET_{MPR} like other Chloride three-phase UPS, features a standard 15 language graphic LCD display, allowing easy interaction with the UPS through the navigation menu design. In addition, the LCD display, complete with a combination key lock function, provides excellent security.

The UPS is perfectly suitable for use in any building management system and offers the following standard communication features:

- Voltage-free contact ports
- Digital inputs
- Two serial ports
- Two internal slots (for LIFE.net card modem, ManageUPSNET cards, or others adaptors).

Hardware Connectivity



ManageUPS_{NET} includes a complete package, ensuring the monitoring and control of the networked UPS, through the TCP/IP protocol.

It permits:

- UPS monitoring from NMS via SNMP
- UPS monitoring from PC via a Web browser
- Dispatch of e-mail notifications
- Possibility of integrating CHLORIDE UPS systems with Building Monitoring and Automation Systems via MODBUS RTU, MODBUS/TCP or JBUS protocols
- Monitoring of environmental conditions where the UPS systems are installed.

Software Connectivity



- MopUPS Professional
- ManageUPS CIO

The main function of MopUPS software will be the safe shutdown of the operating system in the event of an interruption to the load.

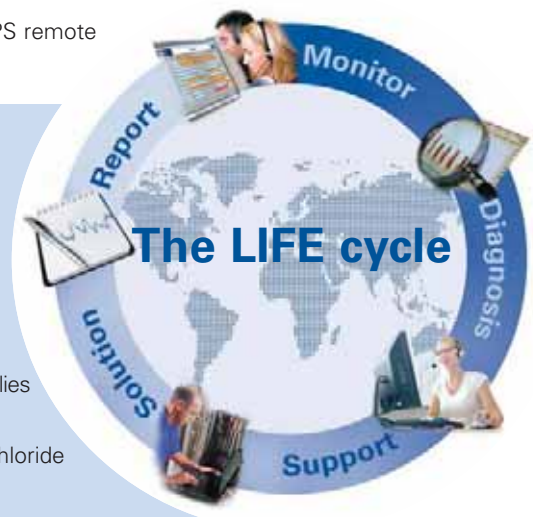
MopUPS can also provide event logging and automatic communication of events

through e-mail. ManageUPS CIO software provides a central management system for critical power infrastructures distributed within a building, campus or wide area network environment.

LIFE.net remote diagnostic system compatible

The 80-NET_{MPR} family is fully compatible with LIFE.net, Chloride's real-time UPS remote diagnostic tool. 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 report
- 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
- LIFE over the IP compatible, to enable the UPS to communicate with the Chloride LIFE centres using the internet.





80-NET _{MPR}	30	40
TECHNICAL CHARACTERISTICS		
Apparent nominal output power at 25° C (kVA)	33	44
Apparent nominal output power at 40° C (kVA)	30	40
INPUT		
Nominal primary mains input voltage/voltage range (V)	400 (300 to 460), three-phase + neutral	
Nominal bypass input voltage/voltage tolerance (V)	400 ± 10% (380V, 415V selectable) three-phase + neutral	
Nominal input frequency/frequency tolerance (Hz)	50 ± 10% (60Hz selectable)	
Input current distortion (THDi)*	<3	
Primary input Power Factor	>0.99	
OUTPUT		
Nominal output voltage (V)	400 (380V, 415V selectable) three-phase + neutral	
Output voltage stability by load variation 0 - 100% (%)	±1	
static	Complies with IEC/EN 62040-3, Class 1	
dynamic		
Output frequency (nominal) (Hz)	50 (60Hz selectable)	
Output frequency variation (%)	± 1 (±0.2 to ±6 selectable)	
with mains synchronisation	± 0.1	
with internal reference		
Inverter overload capacity*	125% for 10 min, 150% for 1 min.	
Nominal output active power*	27	36
Compatibility with loads	Any power factor (leading or lagging) up to 0.9 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	
Recommended battery temperature (°C)	+15/+25	
Relative humidity (without condensation at 20°C)	<90%	
Protection level	IP 21	
Frame colour	RAL 7016	
Noise at 1 m (dBA)*	<50	
AC/AC efficiency (%)*	up to 98%	
Parallel configuration	up to 8 units	
DIMENSIONS AND WEIGHT		
Height (mm)	1600	
Width (mm)	550	
Depth (mm)	800	
UPS weight without batteries (kg)	184	187

* Conditions apply.

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. **MKCA4LOUK80NMPR Rev. 1-09/2008**

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