Intelligent modular single phase technology







centiel

CumulusPower X1 Single phase modular UPS 10kW to 20kW N+1



centiel



CumulusPower X1

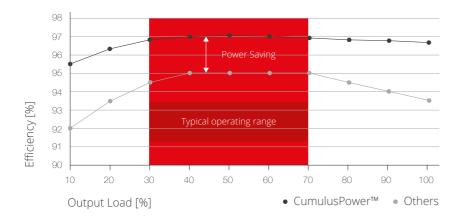
CumulusPower X1 is a Swiss made 1-phase, online double-conversion and fully distributed modular Uninterruptible Power Supply.

From **10kW to 20kW N+1** CumulusPower X1 provides the maximum flexibility to adapt to any application.

Thanks to its Distributed Active-redundant technology (DARA[™]), CumulusPower X1 design eliminates any single point of failure, preventing human error, reducing time to maintain and repair, and delivering industry leading availability of 9 nines to fulfill the needs of the most critical applications.



Lowest Total Cost of Ownership





Maximum Efficiency Management (MEM)

CumulusPower X1 incorporates an Intelligent MEM function which matches the number of modules to the load demand by monitoring the level of optimum energy efficiency. At low load levels, any modules no longer required to maintain redundancy are placed into Active-Sleep mode, reducing overall energy consumption. Active-Sleep modules are instantly online when load increases, maintaining maximum availability at all times.

High Efficiency 97.1% (VFI)

With the best in class efficiency of 97.1% in double conversion mode (VFI), CumulusPower X1 provides the lowest Total Cost of Ownership and lowest carbon footprint.

Serviceability

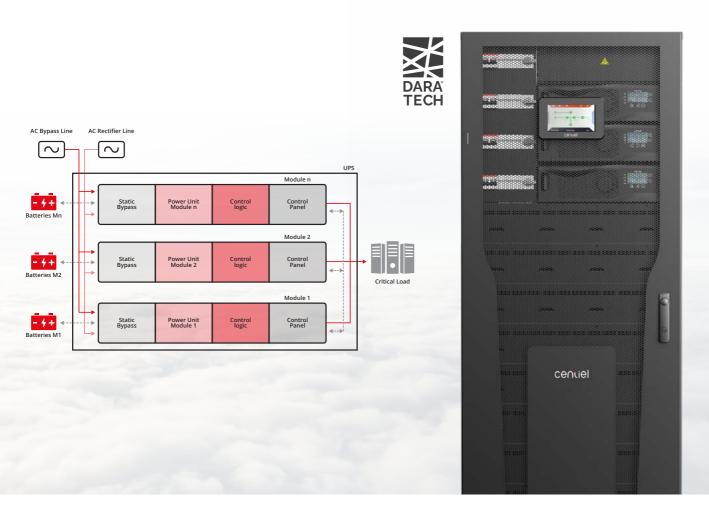
Modular design allows fast replacement of Intelligent Modules, reducing Mean Time to Repair (MTTR), maximising availability and reducing costs.



The Technology

Distributed Active-Redundant Architecture (DARA™)

The architecture of the CumulusPower X1 was designed to respond to the highest availability requirements, through the implementation of the system's distributed decision-making in an event of a critical failure, and a correct management of the load sharing. The communication between the Intelligent Modules is accomplished by means of a fully redundant **TripleMode**^m communication BUS.



IM10-X1



Flexible Intelligent Module (IM10-X1)

Each module is a complete UPS. Thanks to Centiel's long experience in module-design, the CumulusPower X1 Intelligent Modules are equipped with three independent power converters, one static bypass, all hardware and all software (intelligence and monitoring) functions, making them fully independent and capable of safely isolating from the multi-module system whenever an internal fault occurs.

CumulusPower X1



From **10kW** to **20kW N+1**







Model	CP020-E-A1-X1	CP020-
Module Type	3 x IM10-X1	2 x IM ²
Max Power	20kW N+1	20kW
Batteries	External	240x 7
H x W x D mm	1.315x510x815	1.980x
Footprint	0,41 m ²	0,41 m

CPo20-I240-A0-X1 2 x IM10-X1 20kW 240x 7/9Ah or 64x 20Ah 1.980x510x815 0,41 m²

CP020-I320-B0-X1
3 x IM10-X1
20kW N+1
320 x 7/9Ah
1.980x730x815

0,59 m²

CumulusPower X1

19" Universal Rack

From **10kW** to **20kW N+1**







Model	CAB-UR010-E-C0-X1	CAB-UR020-E-C1-X1	Battery Shelf KIT
Module Type	2x IM10-X1	3 x IM10-X1	-
Max Power	10 kW N+1	20 kW N+1	-
Batteries	External	External	1 x 40 / 1 x 48 (7/9 Ah)

All Universal Racks include:

- Electrical distribution
- System Manual Bypass

Bypass fuses (1 x module)

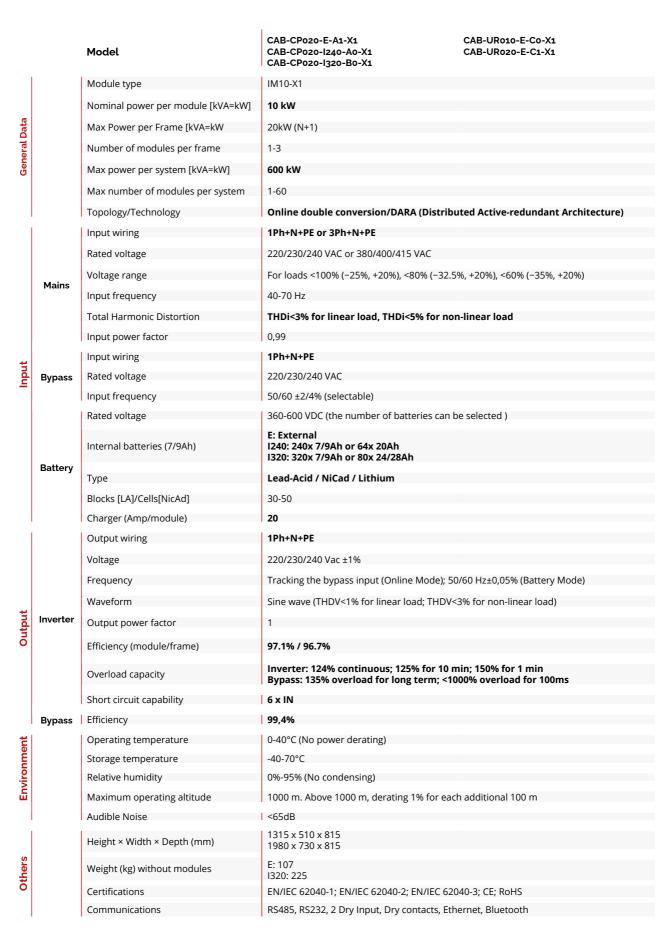
Output parallel isolator (1 x module)

DC Battery MCB protection (1 x module)

Connectivity board (5x Dry output, 5x Dry Input, RS232, RS485,Bluetooth, Ethernet, Slot for SNMP)



Technical Datasheet









www.centiel.com

