CET POWER
Leading Conversion Technology for Power Resilience

Flexa 200 - 400/400

technology inside

Reliable, compact and flexible modular UPS to best meet your needs.
Smart topology and fast battery charging for increased availability.

Telecom | Datacom | Mass transport | Industry | Power Utilities | Renewable

AC In 3x400 Vac+N

DC 408 Vdc

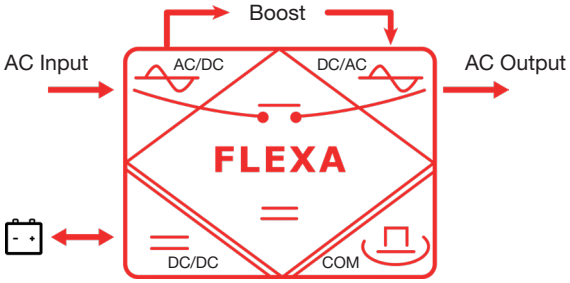
AC Out 3x400 Vac+N

Power 20 kVA / kW

up to 640 kVA

Description

Flexa 200 is a compact and modular UPS using a smart technology 3P input/output. It provides a pure sine wave with **96%** conversion efficiency. Our technology offers a **0ms transfer time** (from grid to batteries), integrates the **static switch function, limited boost** capability (to trigger downstream breakers while protecting upstream ones) and is **easy to maintain** (24kg hot-swappable modules):



Always powered

Flexa 200 operates **without master/slave** configuration, includes a **redundant communication** BUS and is IPC9592B certified. Efficient **battery management** makes it possible to always be ready to secure loads thanks to fast battery charging (up to 17kW), low ripple voltage and different charging modes.

Flexibility

Flexa 200 can be configured in 50Hz or 60Hz and also exists in 3P to 1P topology (Flexa 200 - 400/230). Cabinets can be **customized** on-demand, modules can be integrated into **third-party cabinets** or reused existing ones. Everything to be as flexible as possible.

Applications

Flexa 200 is used in many applications to protect IT loads in datacenters and edge computing sites. Flexa 200 is also used and suitable for industrial, renewables, oil and gas, power utilities and in harsh environment (up to IP54).

Key features:

- Flexibility
- 96% conversion efficiency
- Pure sine guaranteed
- Battery management
- Industrial design (up to IP54)
- Easy to maintain
- Compact and lightweight

Illustrations are non-binding and may include customized fittings.

Flexa 200 - 400/400

	Module	60 kVA/kW	160 kVA/kW	200 kVA/kW	640 kVA/kW
General					
Module Part Number	T451970112				
EMC (immunity)	EN 61000-4-2 / EN 61000-4-3 / EN 61000-4-4 / EN 61000-4-5 / EN 61000-4-6 / EN 61000-4-8				
EMC (emission) (class)	EN 55022 (A)				
Safety	EN 62040-1-1				
EN62040-3 performance level	VFI-SS-111				
MTBF / Cooling / Audible noise	240 000 hrs / Forced / <60 dBA @1meter (100% load at 25°C)				
True Redundant Systems – compliant	3 disconnection levels on AC out and DC in power ports / 4 disconnection levels on AC in port				
RoHS / Material (casing)	Compliant / Coated steel-ALU ZINC-Front plate coated black RAL9005				
Operating T° / Relative Humidity (RH) non-condensing	Tested according ETS300-019-2-3 Class 3.1 -20°C to 65°C, power de-rating from 40°C to 65°C / Max RH 95% for 96 hours per year				
Storage T° / Relative Humidity (RH) non-condensing	Tested according ETS300-019-2-1 Class 1.2 -40°C to 70°C / Max RH 95% for 96 hours per year				
Public transport T°/ Relative Humidity (RH) non-condensing	Tested according ETS300-019-2-2 Class 3.1 -40°C to 70°C / Max RH 95% for 96 hours per year				
Vibration	GR63 office vibration 0 to 100 hz-0.1 g / transport vibration 5-100 Hz 0.5 g 100 to 500 hz-1.5 g / Drop test				
Altitude above sea without de-rating	< 1500 m / derating > 1500 m – 0.8 % per 100 m				
Power					
DC Input Data					
Nominal voltage (DC)	408 Vdc (204 cells VRLA) or 336 cells (NiCd)				
Voltage range (DC)	340 Vdc to 490 Vdc				
Nominal current (at 408 Vdc)	52 A	156 A	416 A	520 A	1664 A
Maximum input current (for 15 second) / voltage ripple	78 A / < 400m V_{rms}	234 A / < 400m V_{rms}	624 A / < 400m V_{rms}	780 A / < 400m V_{rms}	2496 A / < 400m V_{rms}
Input voltage boundaries	User selectable with T4S interface				
AC Input Data					
Nominal voltage (AC)	3x380 / 400 / 415 + Neutral 5 wires for 3 phases				
Voltage range (AC)	150 Vac to 270 Vac Line to Neutral (derating < 222 to 150 Vac)				
Conformity range before transfer to DC	Adjustable				
Power factor	> 99%				
Frequency range / synchronization range	50 or 60 Hz (selectable) / range 30 to 70 Hz adjustable				
AC Output Data					
Efficiency (Typical): AC to AC / DC to AC	96% / 96% (certfiied by SGS at 45% load)				
Nominal voltage (AC*)	3x380 / 400 / 415+Neutral 5 wires for 3 phases				
Frequency / frequency accuracy	50 - 60 Hz / 0.03 %				
Nominal Output power (VA) / (W)	20 kVA / 20 kW	60 kVA / 60 kW	160 kVA / 160 kW	200 kVA / 200 kW	640 kVA / 640 kW
Short time overload capacity (@PF 0.9)	150% - 15s | 130% - 30s | 120% - 60s | 110% permanent				
Admissible load power factor	Full power rating from 0 inductive to 0 capacitive				
Total harmonic distortion (resistive load)	< 1.5 %				
Load impact recovery time	0.4 ms				
Turn on delay	20 s to 40 s depending on the number of module installed				
Nominal current at 230 Vac per phase	29 A	87 A	232 A	290 A	928 A
Crest factor at nominal power	2.8 : 1				
Short circuit clear up capacity, per module	5 x In for 20 msec - Available while Mains is available at AC input port , with magnitude control and management				
Short circuit current on battery, per phase	61 A, 20 ms - 43.5 A RMS 15 Sec.				
Internal temperature management and switch off	Yes				
In Transfer Performance					
Max. voltage interruption / total transient voltage duration (max)	0 s / 0 s				
Signaling & Supervision					
Display	Synoptic LED				
Alarms output / supervision	Dry contacts on T4S / MODBUS, TCP/IP, SNMP				
Remote ON / OFF	On hub board via T4S				
Cabinets					
Dimensions (WxHxD) mm **	19" x 3U x 515 mm	600 x 1800 x 800	600 x 2100 x 800	1200 x 2100 x 800	2400 x 2100 x 800
Number of Cabinets	NA	1	1	1+1 (for external MBP)	3+1 (for external MBP)

* Operation within lower voltage networks leads to de-rating of power performances.
** Other cabinet heights on demand