

Flexa 200

Mission-critical UPS with no single points of failure

The challenges in critical power systems

Mission critical applications face increasing pressure to maintain continuous power availability while reducing operating costs and adapting to evolving power demands.

Typical challenges include:

- Legacy UPS architectures with single points of failure
- Costly maintenance and difficult service interventions
- Need for scalable power protection as loads grow
- High energy losses from conventional online UPS systems
- Harsh environments requiring robust solutions
- Pressure to reduce total cost of ownership

What end-users want

- Continuous power availability
- Easy maintenance without downtime
- Lower operating costs
- Expandable power capacity
- High energy efficiency
- Long-term investment protection

The CE+T solution: Flexa 200

Flexa 200 is a modular UPS designed to maximise availability while simplifying maintenance and future expansion. Unlike traditional UPS systems based on master/slave architectures, every power module operates independently, eliminating single points of failure and ensuring continuous protection of critical loads



AC in/out	3x400Vac + N	3x400Vac + N	3x400Vac + N	3x400Vac + N
DC in/out	408Vdc	408Vdc	408Vdc	408Vdc
Power (up to)	80kVA/kW	160kVA/kW	360kVA/kW	520kVA/kW

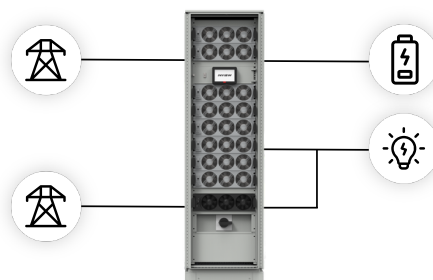
Typical use case scenarios

Critical industrial processes

Protection production lines and automation systems where power interruption create costly downtime

UPS retrofit projects

Replace aging UPS installations while reusing existing infrastructure and batteries where possible.



Edge & distributed sites

Compact and scalable protection for telecom, datacom and remote infrastructure sites.

Harsh environments

Industrial-grade architecture available up to IP54 for demanding conditions.

Typical applications



Airports



Railways and metros



Manufacturing sites



Industrial processes



Datacenters & Telecom



Infrastructures with critical loads

Key benefits for C&I customers

- No single point of failure
- Up to 98% efficiency with Smart By-Pass
- Hot-swappable power modules
- Scale from 20 to 520 kVA/kW
- 0 ms transfer time
- Easy on-site maintenance
- Reduced total cost of ownership

Why CE+T Power?

- Proven field experience
- 100+ trusted partners and integrators
- European design and support
- High efficiency

Get started !

Each project is site-specific. To pre-size a Flexa 200 solution, we typically need: grid connection limit, load profil, critical vs. non-critical loads, existing backup and autonomy requirements. Contact CE+T Power or one of our partners for a sizing discussion.

Flexa 200 - 3P/1P- 400/230 and 3P-3P- 400/400 with SBP

	80 kVA/kW 3P/1P	80 kVA/k W3P/3P	160 kVA/kW	360 kVA/kW	520 kVA/kW
General					
Module Part Number	P10014-F01C0_v01 T451970212		P10014-F02C0-v02 T451970312		
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 / <65 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)	208 A	208 A	416 A	930 A	1341 A
Maximum input current (for 15 seconds) / voltage ripple	312 A / < 400m V rms	312 A / < 400m V rms	624 A / < 400m V rms	1395 A / < 400m V rms	2015 A / < 400m V rms
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)				
Power factor	> 99%				
Frequency range / synchronization range	50 or 60 Hz (selectable) / range 30 to 70 Hz adjustable				
AC Output Data					
Efficiency (Typical): AC / AC - DC / AC	96% - 96% (certified by SGS at 45% load)				
Nominal voltage (AC*)	220 / 230 / 240 Vac L-N 3 wires	3x380 / 400 / 415+Neutral 5 wires for 3 phases			
Frequency / frequency accuracy	50 - 60 Hz / 0.03 %				
Nominal output power (kVA) / (kW)	80 / 80	80 / 80	160 / 160	360 / 360	520 / 520
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	348 A	116 A	232 A	522 A	754 A
Crest factor at nominal power	2.1 : 1 with short circuit management and protection				
Short circuit clear up capacity on battery per phase	750 A for 10 ms, 520 A 10 ms to 15 s	252 A for 10 ms, 174 A 10 ms to 15 s	504 A for 10 ms, 348 A 10 ms to 15 s	1130 A for 10 ms, 783 A 10 ms to 15 s	1638 A for 10 mS 1131 A 10 mS to 15 s
Signaling & Supervision					
Display	Synoptic LED on module, and GUI with Inview X				
Alarms output / supervision	Dry contacts on T4S / MODBUS, TCP/IP, SNMP				
Remote ON / OFF	On hub board via T4S				
Smart By Pass (SBP) module					
Module Part Number	T451970010				
Nominal output power	200 kVA / 200 kW				
SBP in cabinet	Same cabinet	Same cabinet	External cabinet	External cabinet	External cabinet
Number of SBP modules	1	1	1	2	3
Transfer time	Flexa to SBP - max 5 ms, typically 2 ms SBP to Flexa - 0 ms				
Short time overload capacity	1 x SBP : 300 kVA for 10 minutes / 400 kVA for 1 minute 2 x SBP : 600 kVA for 10 minutes / 800 kVA for 1 minute 3 x SBP: 900 kVA for 10 minutes / 1200 kVA for 1 minute				
Cabinets					
Dimensions (WxHxD) with MBP/ IP	600 x 2100 x 800 mm / IP20	600 x 2100 x 800 mm / IP20	1200 x 2100 x 800 mm	1800 x 2100 x 800 mm/ IP20	2400 x 2100 x 800 mm
Number of cabinets	1	1	1	2+1 (for external MBP & SBP + AC out MCCB))	3+1 (for external MBP & SBP + AC out MCCB)

* Operation within lower voltage networks leads to de-rating of power performances.