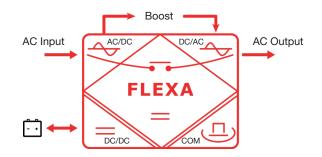


# Reliable, compact and flexible modular UPS to best meet your needs. Smart by-pass included for increased reliability and conversion efficiency.



### Description

Flexa 200 is a compact and modular UPS using smart topology with 3P input/output. It provides a pure sine wave with **96%** conversion efficiency and up to **98%** with the Smart by-pass. Our technology offers a **Oms 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.

# Smart by-pass (SBP)

In combination with a Flexa SBP, we guarantee AC output within your tolerances with a **98% conversion efficiency**. When the grid is out of tolerance, the system automatically switches to the Flexa 200 modules to ensure a **pure sine wave** and protect your loads. The Flexa SBP is a 200 kW module of only 3U high.

# 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).

Illustrations are non-binding and may include customized fittings.

# Flexa SBP

# Key features:

- Flexibility
- 98% conversion efficiency
- Pure sine guaranteed
- Battery management
- Industrial design (up to IP54)
- Easy to maintain
- Compact and lightweight

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### P Belgium, China, India, Luxembourg, Malaysia, Russia, United Kingdom, United States, Australia & Germany

# Flexa 200 - 400/400 with SBP

lexa 200 - 400/400 Witi			000 1 1 10 // 101	400 1.144 // 144	500 1.14 (1.14)
	80 kVA/kW	160 kVA/kW	200 kVA/kW	400 kVA/kW	580 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-con- densing	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					
		400.1/1			
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	416 A	520 A	1040 A	1508 A
Maximum input current (for 15 seconds) / voltage ripple	312 A / < 400m V rms	624 A / < 400m V rms	780 A / < 400m V rms	1560 A / < 400m V rms	2262 A / < 400m V rr
nput voltage boundaries	User selectable with T4S interface				
AC Input Data					
Nominal voltage (AC)		3x380 / 40	0 / 415+Neutral 5 wires f	or 3 phases	
/oltage 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				,	
		0.69/ 0	CO/ (contribution by CCC at /		_
Efficiency (Typical): AC / AC - DC / AC	96% - 96% (certfiled by SGS at 45% load) 3x380 / 400 / 415+Neutral 5 wires for 3 phases				
Nominal voltage (AC*)		3x380 / 40		or 3 phases	
Frequency / frequency accuracy			50 - 60 Hz / 0.03 %		
Nominal output power (kVA) / (kW)	80 / 80	160 / 160	200 / 200	400 / 400	580 / 580
Short time overload capacity (@PF 0.9)			0% - 30s   120% - 60s		
Admissible load power factor		Full power r	rating from 0 inductive to	0 capacitive	
Total harmonic distortion (resistive load)			< 1.5 %		
_oad impact recovery time			0.4 ms		
Furn on delay		20 s to 40 s dep	ending on the number of	module installed	
Nominal current at 230 Vac per phase	116 A	232 A	290 A	580 A	841 A
Crest factor at nominal power	2.8 : 1 with short circuit management and protection				
Short circuit clear up capacity	2900 A, 20 ms per SBP module, above which the system will shut down if short-circuit still present				
nternal temperature management and switch off	Yes				
Signaling & Supervision					
Display		Synoptic L	ED on module, and GUI	with Catena	
Alarms output / supervision	Dry contacts on T4S / MODBUS, TCP/IP, SNMP				
Remote ON / OFF	On hub board via T4S				
			Strings Sound Via 140		
Smart By Pass (SBP) module			TICIOSOCIO		
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
Fransfer time		Flexa to SBP - ma	ax 5 ms, typically 2 ms   5	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		0 X 0DI . 300 K			
	000 4000	000 0100	1000 0100	1000 0100	0.400 0.400 0.55
Dimensions (WxHxD) with external MBP	600 x 1800 x 800 mm	600 x 2100 x 800 mm	1200 x 2100 x 800 mm	1800 x 2100 x 800 mm	2400 x 2100 x 800 m
			1+1 (for external	2+1 (for external	3+1 (for external

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

Flexa 200 - 400/400 with SBP - Datasheet v1.5 Specifications can change without notice. New data will be updated on our website: www.cet-power.com. The present equipment is protected by several international patents, trademarks and copyrights.

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