



Telecommunications



Data centers



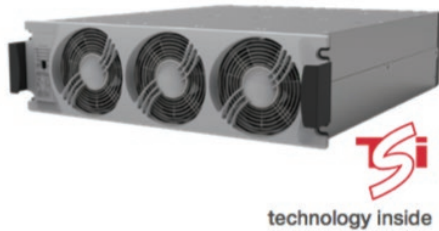
Industries



Renewable

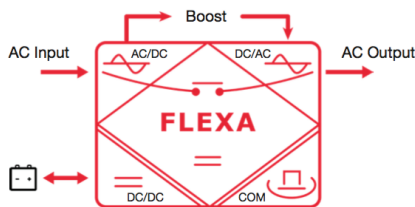
UPS FLEXA 200 - 400/400

UPSCETFLEXA200



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

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SPECIFICATIONS

	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	240 000 hrs / Forced				
True Redundant Systems – compliant	3 disconnection levels on AC out and DC in power ports / 4 disconnection levels on AC in port				
RoHS	Compliant				
Vibration	GR63 of ce 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				
Operating conditions	Designed for installation in an IP20 or IP21 environment. When installed in a dusty or corrosive environment, appropriate measures (air filtering, ...) must be taken.				
Altitude above sea without de-rating	< 1500 m / derating > 1500 m – 0.8 % per 100 m				
Ambient / storage temperature / relative humidity	-10 to 40 °C / -40 to 70 °C / 95%, non-condensing				
Material (casing)	Coated steel-ALU ZINC-Front plate coated black RAL9005				
Power					
DC Input Data					
Nominal voltage (DC)	408 Vdc (204 cells VRLA) or 336 cells (NiCd)				
Voltage range (DC)	336 Vdc to 490 Vdc				
Nominal current (at 408 Vdc)	52 A	156 A	416 A	520 A	1664 A
Maximum input current (for 5 second) / voltage ripple	67 A / < 400m Vrms	201 A / < 400m Vrms	536 A / < 400m Vrms	670 A / < 400m Vrms	2144 A / < 400m Vrms
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 275 Vac Line to Neutral (derating 150 to 220 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% (cert ied 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	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	53 A 20 mS - 38 A Rms 15 Sec.				
Internal temperature management and switch off	Yes				

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SPECIFICATIONS

	MODULE	60 kVA/kW	160 kVA/kW	200 kVA/kW	640 kVA/kW
In Transfer Performance					
Max. voltage interruption / total transient voltage duration (max)		0s / 0s			
Signaling & Supervision					
Display		Synoptic LED			
Alarms output / supervision		Dry contacts on T4S / MODBUS, TCP-IP, SNMP			
Remote ON / OFF		On rear terminal of the shelf via T4S			
Cabinets					
Dimensions (WxHxD) mm **	19" x 3U x 515 mm	600 x 2100 x 800		1200 x 2100 x 800	2400 x 2100 x 800
Number of Cabinets	NA	1	1	2	4

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

** Other cabinet heights on demand

Latpower reserves the right to change product specifications and design without notice.

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