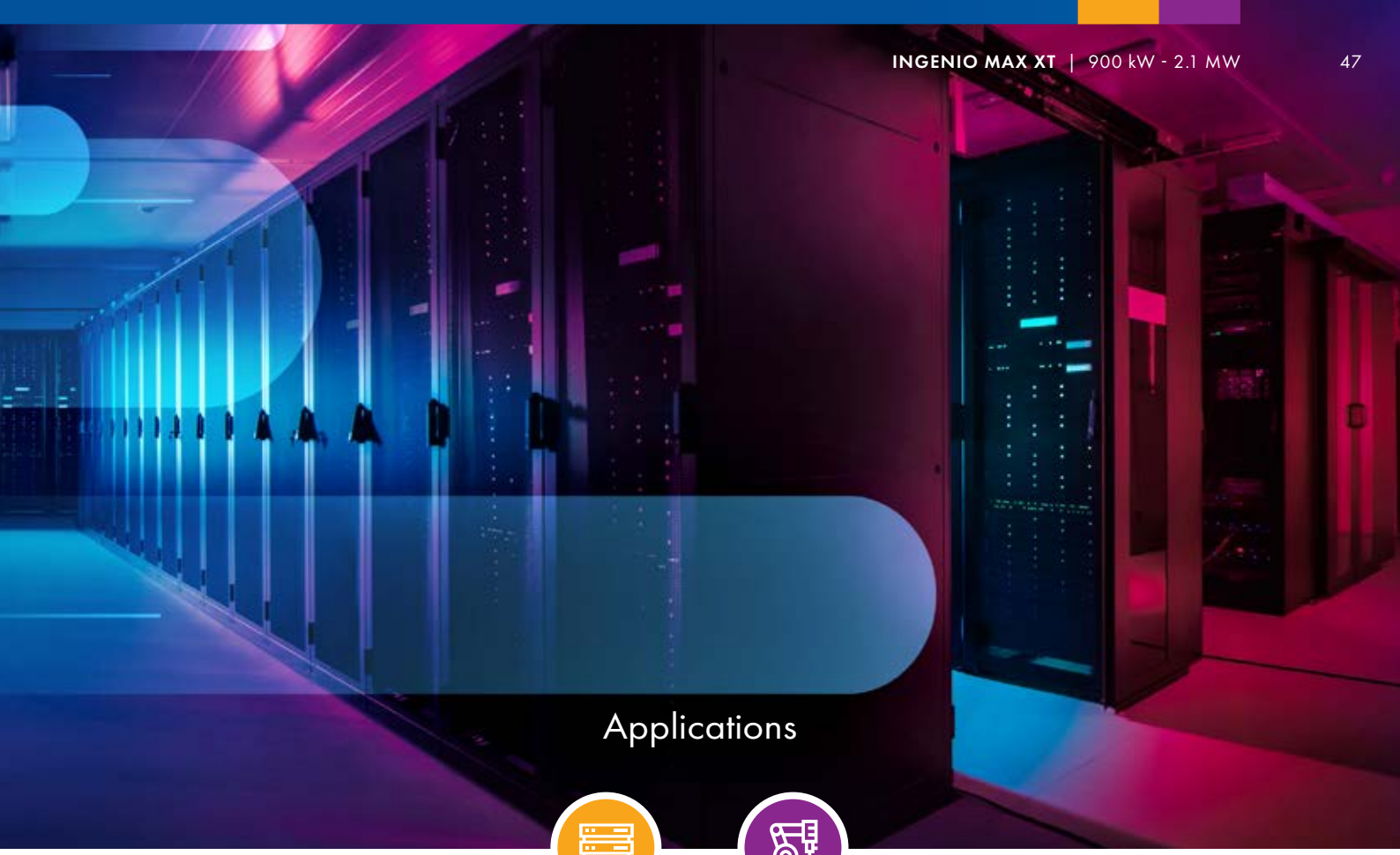
SCALABLE HI-POWER
3-PHASE UPS

INGENIO MAX XT

from **900** kW —— to **2.1** MW

GREEN 3-L CONVERSION



Applications

Large data centre

Industrial controls & process automation

High Efficiency

Online double conversion VFI with the highest efficiency thanks to the patented 3-Level Green Conversion technology.

Scalable Modules

Scalable modules up to a 2.1 MW UPS to grow with your needs.

Reduced TCO

High power density in a minimum space maximizing the number of racks and servers installed in your data centres.

Scalable, high efficiency UPS system supplying reliable uninterrupted quality power to all critical applications. High efficiency operating modes and easy hot maintenance allow for lowest Capex and Opex. Flexible configuration and positioning make it totally adaptable to your facility and business.

Ingenio Max XT: scalable, flexible and efficient solution for both data centre and critical applications.

Features and benefits

- 250 kW or 300 kW MPM scalable power modules rated at 40°C operating temperature, for lower TCO and high flexibility to grow on demand.
- Patented 3-Level Green Conversion technology for highest efficiency with optimal component count to increase reliability.
- Selectable hi-efficiency modes of operation.
- >96% VFI online efficiency starting from 40% load for very low TCO and meeting local regulations for subsidies (applies in some countries).
- Up to 99% high efficiency mode.
- Scalable up to 2.1 MW unit power, for N+1 and A+B redundant configurations.
- Available in Central or Distributed Static Bypass and Common or Modular Battery.
- Hot maintainable modules (VFI), reducing mean time to repair and ensuring no system downtime.
- Innovative design, resulting in reduced footprint, ease of maintenance and low audible noise levels.
- Hot scalability (in VFI mode) option to increase the availability of your system.
- Flexible and customisable mechanical features like top or bottom connections, L- or back to back configuration ensuring maximum system design flexibility.
- Centralised 10" colour touch screen display providing all user info and history information at a glance.
- Green Conversion Battery Care (GCBC) for extended battery service life.
- Lithium Battery compatible.

Main options

- Manual Bypass Module.
- Hot-Scalable Extension module.
- Input Protection (Input and Bypass).
- 50 kA and 100 kA Input SC withstand.
- Peak Shaving.
- Load-sync option.
- Backfeed protection trip coil.

Fully Scalable System

Power expansion or redundancy can be implemented at a later stage by installing additional MPM modules up to 2.1 MW.

DAY 1 : 1200 kW DAY 2 : 1500 kW DAY 3 : 1800 kW DAY 4 : 2100 kW

INGENIO MAX XT technical data

Rating (kVA)	**900**	**1000**	**1200**	**1250**	**1500**	**1800**	**2100**
N Nominal Power (kW)	**900**	**1000**	**1200**	**1250**	**1500**	**1800**	**2100**
N+1 Nominal Power (kW)	**600**	**750**	**900**	**1000**	**1200**	**1500**	**1800**
MPM module size (kW)	**300**	**250**	**300**	**250**	**300**	**300**	**300**
UPS dimensions WxDxH (mm)*	3440x970x2100	4320x970x2100		5200x970x2100	5650x970x2100	6930x970x2100	7810x970x2100
UPS weight (kg)*	3590	4470		5350		6330	7210
Battery configuration	External 360 to 372 cells, VRLA (other options)						
Input							
Connection type	Hardwired 4w (rectifier), 4w (bypass)						
Nominal voltage	400 Vac 3-phase with neutral (rectifier), 380/400/415 Vac 3-phase with neutral (bypass)						
Voltage tolerance	-20%, +15% (rectifier); ±10% (bypass)						
Frequency and range	50/60 Hz, 45 to 65 Hz						
Power factor	0.99						
Current distortion (THDi)	<3%						
Output							
Connection type	Hardwired 4w						
Nominal voltage	380/400/415 Vac 3-phase with neutral						
Frequency	50/60 Hz						
Voltage regulation	Static: ±1%; Dynamic: IEC/EN 62040-3 Class 1						
Power factor	Up to 1, without power derating						
Overload capacity	Inverter: 125% for 10 min, 150% for 1 min; bypass: 125% continuous, 1000% for 1 cycle						
Efficiency (AC/AC)**	Up to 99%						
Classification by IEC/EN 62040-3	VFI-SS-111						
Connectivity and function extensions							
Front panel	10" colour touch screen display, 1024x600 pixels						
Remote communication	**Included:** serial RS232 and USB; input terminal block (remote emergency power off, battery circuit breaker aux. cont., external maintenance bypass circuit breaker aux. cont., diesel mode aux. cont., external output circuit breaker aux. cont., remote transfer to bypass mode); SPDT contact relay board; ModBus-RTU (RS485). **Optional:** ModBus-TCP/IP (Ethernet); ModBus-RTU to PROFIBUS DP adapter						
Optional features	Isolation transformer; custom battery cabinets; battery thermal probe; load-sync; other options on request						
System							
Protection degree	IP 20						
Colour	RAL 9005						
Installation layout	Wall, back to back and side by side installation allowed						
Accessibilty	Front and top access, bottom and top cable entry						
Scalability	Up to 2.1 MW						

*referred to common battery, central bypass static switch, bottom cable entry. For other configurations contact our sales team **according to IEC/EN 62040-3

Other features

Environmental	
Operating temperature range	0°C to +40°C with no power derating
Storage temperature range	-10°C to +70°C
Altitude (AMSL)	< 1000 m without power reduction, > 1000 m with reduction of 0.5% per 100 m
Audible noise at 1 m (dBA)	65
Standards and certifications	
Quality assurance, environment, health and safety	ISO 9001:2015, ISO 14001:2015, BS OHSAS 18001:2007
Safety	IEC/EN 62040-1
EMC	IEC/EN 62040-2
Environment aspects	IEC/EN 62040-4
Test and performance	IEC/EN 62040-3
Protection degree	IEC 60529
Marking	CE