INGENIO 30-50 kVA For server rooms TLC equipment Emergency and safety systems Industrial automation

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INGENIO 30 to 50 kVA Three phase On-line double conversion Transformer free Full IGBT technology Paralleling up to 300 kVA

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Features and benefits

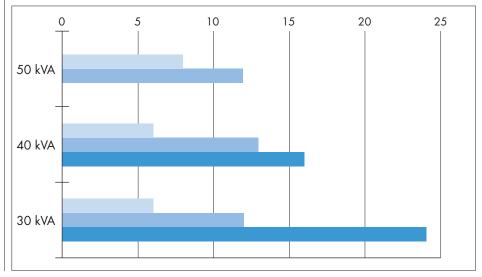
- High double conversion efficiency and ECO mode for low running costs and environmental impact.
- Transformer free design for light small size layout.
- Removable power modules architecture and built-in diagnostics for easy maintenance and very low MTTR.
- Hot connection/disconnection of parallel units for easy system resizing.
- Full IGBT technology and electronic PFC, ensuring 0.99 input PF and THDi<3% for maximum upstream sources compatibility.
- Wide range of configurations with internal batteries for low TCO compact solutions.
- High power battery charger, suiting long autonomy applications.
- Dual DSP plus microcontroller logics for top performance and reliability.
- CAN-bus based distributed parallel control ensuring high load sharing accuracy and no single point of failure.
- Comprehensive set of communication options for total remote monitoring of equipment operation.
- Fully compliance with all international product standards for maximum quality guarantee.

Main options

- Isolation transformer.
- Transformers/autotransformers for voltage adjustment.
- Battery voltage temperature compensation.
- External maintenance bypass wall-mounted box.
- Battery fuse switch wall-mounted box.
- Associated battery cabinets for long autonomy times.
- Parallel kit.
- Load-sync for single UPS units.
- Input terminals for remote EPO, external manual bypass auxiliary contact, diesel mode.
- Separate bypass input.
- Backfeed protection bypass contactor.



Autonomy time in minutes with different types of internal batteries







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INGENIO technical data

Environmental aspects Test and performance

Protection degree

Marking

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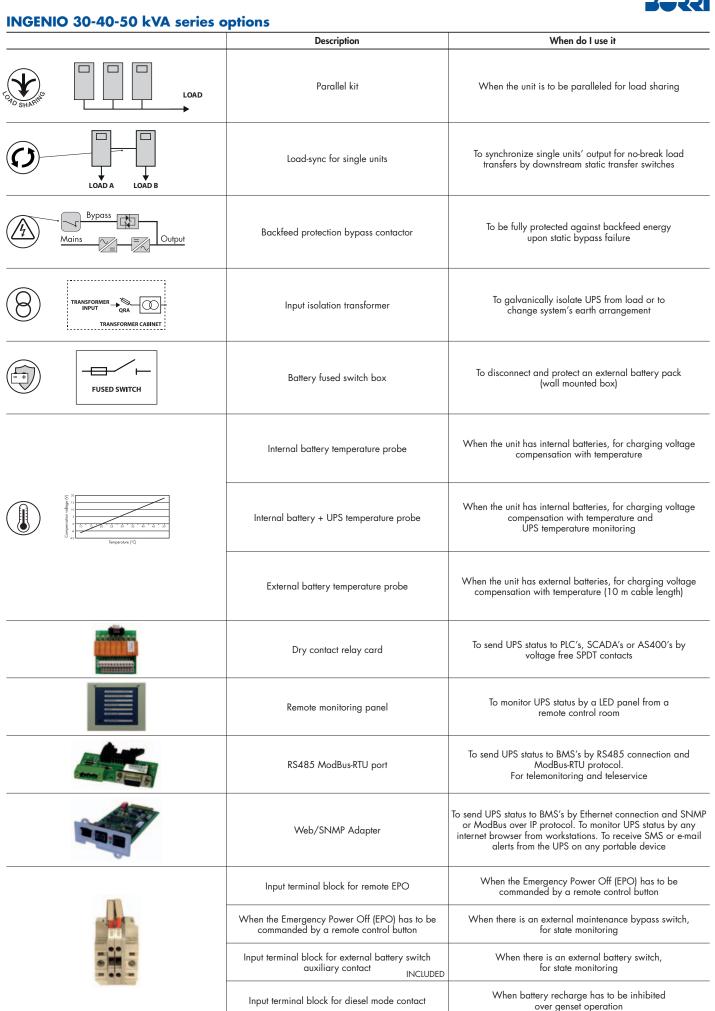
Rating (kVA)	30	40	50	
Nominal power (kW)	27	36	45	
JPS dimensions WxDxH (mm)		500x940x1500		
UPS weight (kg)	140	150	190	
UPS weight with int. battery (kg)	500	510	550	
Battery configuration	Ir	Internal or external, 360÷372 cells, VRLA (other options)		
Max autonomy with int. battery 70% load (min)	24	16	12	
put				
Connection type	Ho	Hardwired 4w (separate bypass input available on request)		
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÷65 Hz		
Power factor		0.99		
Current distortion (THDi)		<3%		
utput				
Connection type		Hardwired 4w		
Nominal voltage		380/400/415 3-phase with neutral		
Frequency		50/60 Hz		
Voltage regulation		±1% static; dynamic: IEC/EN 62040-3 Class 1		
Power factor		up to 0.9, lagging or leading without power derating		
Overload capacity	Inverter: 101÷125% for 10 min, 126÷150% for 30 s, >150% for 100 ms, bypass: 150% continuous, 1000% for 1 cycle			
Efficiency (AC/AC)*		up to 98%		
Classification as per		۵٬۵۶ ۵٬۹۵		
IEC/EN 62040-3		VFI-SS-111		
onnectivity and function extension				
Front panel		Graphic display, mimic LED panel and keyboard, local EPO		
Remote communication	Op external mair SNMP adapter (Ethernet), Web int	Included: RS232 card, USB; terminal block for battery breaker auxiliary contact Optional: input terminal block (remote emergency power off, external maintenance bypass circuit breaker aux. cont., diesel mode aux. cont.); SNMP adapter (Ethernet), Web interface (Ethernet), from ModBus-RTU to PROFIBUS DP adapter; SPDT contact relay board; remote system monitoring panel; UPS managing and server shutdown software		
Optional function extension	lsolation transformer; transformers/aut wall-mounted battery fu	ation transformer; transformers/autotransformers for voltage adjustment; external maintenance bypass; custom battery cabinets; wall-mounted battery fuse switch box; battery thermal probe; parallel kit and load-sync for single UPS		
ystem				
Protection degree		IP 20		
Colour		RAL 9005		
Installation layout	Wall and side by si	de installation allowed; 50 cm clearance on one si	ide with internal battery	
according to IEC/EN 62040	-3			
nvironmental				
Operating temperature rang	·			
		-10°C ÷ +70°C		
Altitude (AMSL)	< 1000 m without power reduction, > 1000 with reduction of 0.5% per 100 m			
Audible noise at 1 m (dBA	N)	<52		
tandards and certifications				
Quality assurance,	ISO 9001:2008, ISO 14001:2004, BS OHSAS 18001:2007			
environment, health and sat	fety		8001:200/	
	fety	IEC/EN 62040-1		

IEC/EN 62040-4

IEC/EN 62040-3 VFI-SS-111

IEC 60529

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