# INGENIO COMPACT Uninterruptible Power Supply 3ph from 10 to 20 kVA INGENIC Highlights **Applications** Networks and servers On-line double conversion Small and medium data centers Transformer free Full IGBT technology Telecommunication Parallel redundant configuration Built-in batteries

### 3033

# INGENIO COMPACT

Uninterruptible Power Supply
3ph from 10 to 20 kVA



## Features and benefits

- On-line double conversion mode for total load protection.
- ECO mode for low running costs and environmental impact.
- Full rated output power, ensuring optimal UPS sizing and utilization.
- Transformer free design for light small size layout.
- Full IGBT technology and electronic PFC, ensuring 0.99 input PF and low THDi for maximum upstream sources compatibility.
- Wide input voltage range to save battery life.
- Wide range of configurations with internal and external batteries for low TCO compact solutions.
- Parallel-redundant up to six units, to increase system redundancy.
- Innovative design allows for fast installation.
- Removable tray design for easy battery maintenance.
- Comprehensive set of communication options for total remote monitoring of equipment operation.
- Fully compliant with all international product standards for maximum quality guarantee.

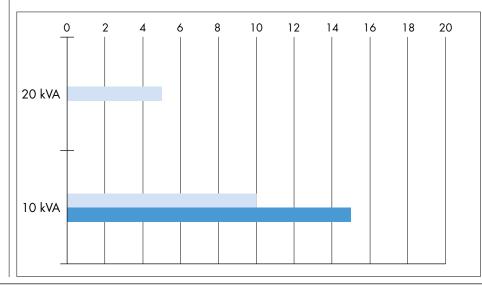
## Main options

- Isolation transformer.
- Transformers/autotransformers for voltage adjustment.
- Battery voltage temperature compensation.
- External maintenance bypass wall-mounted box.
- External battery cabinets for long autonomy times.
- Parallel kit.
- Common battery.





# Autonomy time in minutes with different types of internal batteries





#### **INGENIO COMPACT technical data**

10	20	
440x800x800		
75	76	
150	165	
500x650x1200		
Internal (standard): 180 cells; external: 156/240 cells	Internal (standard): 216 cells; external: 192/240 cells	
Hardwired 4w		
400 Vac 3-phase with neutral		
-20%, +15% (rectifier); ±10% (bypass)		
50/60 Hz, 40 to 70 Hz		
0.99		
<3%		
Hardwired 4w		
380/400/415 Vac 3-phase with neutral		
50/60 Hz		
1		
110% for 60 min, 125% for 10 min, 150% for 1 min		
Up to 98%		
Touch screen display		
Included: serial RS232; backfeed protection monitoring contact, remote EPO contact. Optional: 2 slots for SNMP adapter, ModBus-RTU, contact relay card		
lsolation transformer; transformers/autotransformers for voltage adjustment; external maintenance bypass; custom battery cabinets; wall-mounted battery fuse switch box; battery thermal probe; parallel kit; other options on request		
IP 20		
RAL 9005		
30 cm wall-gap		
Positioning casters; bottom cable entry		
	75 150 500x65 Internal (standard): 180 cells; external: 156/240 cells  Hardwi 400 Vac 3-phc -20%, +15% (rectifi 50/60 Hz, 0.  Hardw 380/400/415 Vac 50/6  110% for 60 min, 125% for Up to  Touch scree  Included: serial RS232; backfeed protectic Optional: 2 slots for SNMP adapt Isolation transformer; transformers/au external maintenance bypass; custom battery of battery thermal probe; parallel  IP RALC 30 cm v.	

<sup>\*</sup>according to IEC/EN 62040-3

#### Other features

vironmental				
UPS operating temperature range	0°C to +40°C			
UPS 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)	<52			
ndards and certifications				
Quality assurance, environment, health and safety	ISO 9001:2008, ISO 14001:2004, BS OHSAS 18001:2007			
Safety	IEC/EN 62040-1			
EMC	IEC/EN 62040-2			
Environmental aspects	IEC/EN 62040-4			
Test and performance	IEC/EN 62040-3			
Protection degree	IEC 60529			
Marking	CE			



<b>INGENIO</b>	COMPACT	series op	tions
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		Description	When do I use it
TO SHAME	LOAD	Parallel kit	When the unit is to be paralleled for load sharing
	Output	Backfeed protection contactor	To be fully protected against backfeed energy upon static bypass failure
8	TRANSFORMER ORA ORA TRANSFORMER CABINET	Input isolation transformer in extended cabinet	To galvanically isolate UPS from load or to change system's earth arrangement
	(C) Temperature (C)	Internal battery temperature probe	When the unit has internal batteries, for charging voltage compensation with temperature
		Dry contact relay card	To send UPS status to PLC's, SCADA's or AS400's by voltage free SPDT contacts
		RS485 ModBus-RTU port	To send UPS status to BMS's by RS485 connection and ModBus-RTU protocol. For telemonitoring and teleservice
		Web/SNMP Adapter	To send UPS status to BMS's by Ethernet connection and SNMP or ModBus over IP protocol. To monitor UPS status by any internet browser from workstations. To receive SMS or e-mail alerts from the UPS on any portable device
	arm EPO Included	Input terminal block for remote EPO	When the Emergency Power Off (EPO) has to be commanded by a remote control button