Uninterruptible Power Supply 3ph from 30 to 160 kVA





- Small and medium data centers
- Networks and servers
- Industrial control and process automation
- Medical equipment
- Building automation

Highlights

- On-line double conversion
- Transformer free
- Full IGBT technology
- Paralleling up to 960 kVA



INGENIO PLUS

Uninterruptible Power Supply **3ph from 30 to 160 kVA**



Features and benefits

- Green Conversion technology, high efficiency even at light load and the lowest TCO in its category.
- Full rated output power, ensuring optimal UPS sizing and utilization.
- Transformer free design for compact, light and sustainable systems.
- Full IGBT technology and electronic PFC, ensuring 0.99 input PF and THDi<3% for maximum upstream sources compatibility.
- Internal battery configurations up to 80 kVA for less floor space and maximum flexibility.
- Dynamic Charging Mode (DCM) for maximum versatility in long autonomy and low charging time applications.
- Green Conversion Battery Care (GCBC), for extended battery service life.
- Comprehensive set of communication options for total remote monitoring of equipment operation.
- Fully compliant with all international product standards for maximum quality guarantee.

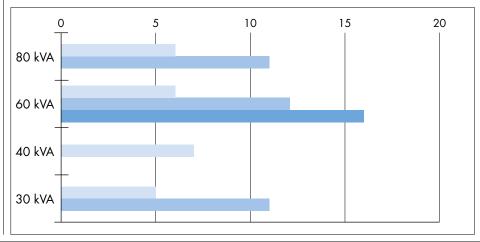
Main options

- Isolation transformer.
- Transformers/autotransformers for isolation or voltage adjustment.
- Battery voltage temperature compensation.
- External maintenance bypass wall-mounted box.
- Battery fuse switch wall-mounted box.
- Battery cabinets for long autonomy times.
- Parallel kit for load sharing.
- Load-sync for single UPS units, load-sync box for two sets of paralleled UPS.
- Common battery.
- Tripping coil for bypass disconnector.
- Separate rectifier and bypass input for INGENIO PLUS 30-40 kVA.
- Ultra High Efficiency Mode (UHE).
- Cold start.
- Touch screen display (only on 60-160 kVA range).





Autonomy time in minutes with different types of internal batteries





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INGENIO PLUS technical data

Rating (kVA)	30	40	60	80	100	125	160
Nominal power (kW)	30	40	60	80	100	125	160
UPS dimensions WxDxH (mm)	460x6	50x1230			560x940x1800		
UPS weight (kg)	120	140	250	300	320	360	380
UPS weight with int. battery (kg)	365	385	800	850	-	-	-
Battery configuration		Internal or external, 360 to 372 cells, VRLA (other options)		External 360 to 372 cells, VRLA (other options)			
Max autonomy with int. battery 70% load (min)	11	7	16	11	-	-	-
nput							
Connection type	Hardv	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%; nic IEC/EN 62040-	2 Claure 1		
Power factor			1	1, without power			
Overload capacity*					30 s, >150% for 0.1 s	;	
Efficiency (AC/AC)**			bypass: 150	0% continuous, 100 Up to 99%	00% for 1 cycle		
Classification as per				•			
IEC/EN 62040-3				VFI-SS-111			
Connectivity and function extensi	ons						
Front panel	Graphic display, mimic LED panel and keyboard, local EPO						
	Included (30 to 160 kVA): backfeed protection monitoring contact. Included (60 to 160 kVA): 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.). Optional: SNMP adapter (Ethernet), Web interface (Ethernet), ModBus-TCP/IP (Ethernet), ModBus-RTU (RS485), from ModBus-RTU to PROFIBUS DP adapter; SPDT contact relay board; remote system monitoring panel; UPS managing and server shutdown software						
Remote communication		battery circuit breake Optional: SNMP ad	apter (Ethernet), We U to PROFIBUS DP c	eb interface (Ethern adapter; SPDT conto	et), ModBus-TCP/IP (Et act relay board; remote	cont., diesel mode hernet), ModBus-R	e aux. cont.). IU (RS485),
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		Description	When do I use it
SHARING SHARING		Parallel kit	When the unit is to be paralleled for load sharing
0		Load-sync for single units	To synchronize single units' output for no-break load transfers by downstream static transfer switches
0	LOAD A LOAD B	Load-sync box for two sets of paralleled UPS	To synchronize the output of two paralleled UPS systems for no-break load transfers by downstream static transfer switches
	Mains Output	Tripping coil for bypass disconnector	To be fully protected against backfeed energy upon static bypass failure. Detection circuit is included
8	TRANSFORMER	Input transformer to be installed internally or in extended cabinet	To galvanically isolate UPS from load or to change system's earth arrangement
		Battery fuse switch in wall-mounted box	To disconnect and protect an external battery pack
Compared FC	N former and the set of the set o	Internal battery temperature probe	When the unit has internal batteries, for charging voltage compensation with temperature
	Temperature ['C]	External battery temperature probe	When the unit has external batteries, for charging voltage compensation with temperature (10 m cable length)
		Dry contact relay card	To send UPS status to PLC's, SCADA's or AS400's by voltage free SPDT contacts
		Remote monitoring panel	To monitor UPS status by a LED panel from a remote control room (relay card required)
		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
		Input terminal block for remote EPO	When the Emergency Power Off (EPO) has to be commanded by a remote control button
		Input terminal block for external manual bypass switch auxiliary contact	When there is an external maintenance bypass switch, for state monitoring
		Input terminal block for external battery switch auxiliary contact	When there is an external battery switch, for state monitoring
		Input terminal block for diesel mode contact	When battery recharge has to be inhibited over genset operation