

# INGENIO PLUS technical data

Rating (kVA)	60	80	100	125	160
Nominal power (kW)	60	80	100	125	160
UPS dimensions WxDxH (mm)	560x940x1800				
UPS weight (kg)	250	300	320	360	380
UPS weight with int. battery (kg)	800	850	-	-	-
Battery configuration	Internal or external, 360÷372 cells, VRLA (other options)		External 360÷372 cells, VRLA (other options)		
Max autonomy with int. battery 70% load (min)	16	11	-	-	-

## 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÷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	±1% static; dynamic: IEC/EN 62040-3 Class 1				
Power factor	up to 1, without power derating				
Overload capacity	Inverter: 101÷125% for 10 min, 126÷150% for 30 s, >150% for 0.1 s; bypass: 150% continuous, 1000% for 1 cycle				
Efficiency (AC/AC)*	up to 99%				
Classification as per IEC/EN 62040-3	VFI-SS-111				

## Connectivity and function extensions

Front panel	Graphic display, mimic LED panel and keyboard, local EPO				
Remote communication	Included: serial RS232 and USB, backfeed protection monitoring contact, 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), from ModBus-RTU to PROFIBUS DP adapter. SPDT contact relay board; remote system monitoring panel; UPS managing and server shutdown software				
Optional function extension	Isolation transformer; transformers/autotransformers for voltage adjustment; external maintenance bypass; custom battery cabinets; wall-mounted battery fuse battery thermal probe; parallel kit, load-sync for single UPS and load-sync box (2 UPS systems)				

## System

Protection degree	IP20				
Colour	RAL 9005				
Installation layout	Wall and side by side installation allowed, 80 cm clearance on one side only with internal battery				
Accessibility	Front access, side access (only with internal battery), bottom cable entry				

\*according to IEC/EN 62040-3

## Other features

### Environmental

Operating temperature range	0°C ÷ +40°C				
Storage temperature range	-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)	<60				

### Standards 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				