

## INGENIO technical data

Rating (kVA)	30	40	50
Nominal power (kW)	27	36	45
UPS dimensions WxDxH (mm)	500x940x1500		
UPS weight (kg)	140	150	190
UPS weight with int. battery (kg)	500	510	550
Battery configuration	Internal or external, 360÷372 cells, VRLA (other options)		
Max autonomy with int. battery 70% load (min)	24	16	12

### Input

Connection type	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%

### Output

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 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: 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	Isolation 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

### System

Protection degree	IP 20
Colour	RAL 9005
Installation layout	Wall and side by side installation allowed; 50 cm clearance on one side with internal battery

\*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)	<52

### 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 VFI-SS-111
Protection degree	IEC 60529
Marking	CE