

Rating (kVA)	60	80	100	125	160	200	250	300
Nominal power (kW)	54	72	90	112.5	144	180	225	270
Dimensions WxHxD (mm)	815x1670x825					1200x1900x860		
UPS weight (kg)	570	600	625	660	715	970	1090	1170
Battery configuration	External, 300÷312 cells, VRLA (other options)							

Input

Connection type	Hardwired 3w (rectifier), 4w (bypass)
Nominal voltage	380/400/415 Vac 3-phase (rectifier) 380/400/415 Vac 3-phase with neutral (bypass)
Voltage tolerance	-20%, +15%
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 0.9, lagging or leading without power derating
Overload capacity	Inverter: 101÷125% for 10 min, 126÷150% for 1 min, 151÷199% for 10 s, 200% 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	Serial RS232 and USB; input terminal block for: remote emergency power off (REPO), 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); ModBus-RTU to PROFIBUS DP adapter; SPDT contact relay board; remote system monitoring panel; UPS managing and server shutdown software
Optional function extensions	Isolation transformer; transformers/autotransformers for voltage adjustment; external maintenance bypass; custom battery cabinets; wall-mounted battery fuse switch box; battery thermal probe; parallel kit for load sharing or load-sync (2 UPS); top cable entry; load-sync box (2 UPS systems); backfeed protection

System

Protection degree	IP 20 (other options)
Colour	RAL 7016 (other options)
Installation layout	Wall, back to back and side by side installation allowed
Accessibility	Front and top access, bottom cable entry

*certified by TÜV NORD according to IEC EN 62040-3

Other features

Environmental	
Operating temperature range	0 °C ÷ +40 °C
Storage temperature range	-10 °C ÷ +70 °C
Altitude	<1000 m
Audible noise at 1m (dBA)	<62

Standards and certifications

Quality assurance, environment, health and safety	ISO 9001:2008, ISO 14001:2004, GOST, BS OHSAS 18001:2007
Safety	IEC EN 62040-1
EMC	IEC EN 62040-2
Test and performance	IEC EN 62040-3 (VFI-SS-111)
Protection degree	IEC 60529
Marking	CE