

Rating (kVA)	10	15	20	30	40	50	60	80	100
Nominal power (kW)	9	13.5	18	27	36	45	54	72	90
UPS dimensions WxHxD (mm)	450x1200x670 *							460x1690x920	
UPS weight (kg)	100	110	110	140	140	170	170	328	333
UPS weight with internal battery (kg)	Min.175 Max.285	Min.260 Max.275	Min.260 Max.275	350	350	-	-	-	-
External battery module dimensions WxHxD (mm)	500x1200x670					560x1690x880			
Battery configuration	Internal or external, 360÷372 cells, VRLA (other options)					External, 360÷372 cells, VRLA (other options)			

Input

Connection type	Hardwired 4w (separate bypass input available on request)
Nominal voltage	380/400/415 Vac 3-phase with neutral
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 capability	Inverter: 101÷125% for 10 min, 126÷150% for 30 s, >150% for 10 s; bypass: 150% continuous, 1000% for 1 cycle
Efficiency (AC/AC)**	up to 98%
Classification as per IEC EN 62040-3	VFI-SS-111

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

Connectivity and function extensions

Front panel	Graphic display, mimic LED panel and keyboard, local EPO
Remote communication	Serial RS232 and USB; terminal block for battery breaker auxiliary contact. Optional: input terminal block (remote emergency power off, battery circuit breaker aux. cont., external maintenance bypass circuit breaker aux. cont., diesel mode aux. cont.); 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

System

Protection degree	IP 20
Colour	RAL 7016 (10-60 kVA) RAL 9005 (80-100 kVA)
Installation layout	10 cm wall-gap, side by side installation allowed
Accessibility	Front and top access, bottom cable entry

*dimensions of 30 and 40 kVA with internal battery: 450x1730x670 ** 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