

## Technical specifications

Rated power (kVA/kW)		48 kw
<b>Mains input (Normal operation)</b>		
Grid system	3 phases + neutral + ground	
Voltage range (full load)	340 – 477 V	
Frequency range	40 – 70 Hz with 10 Hz/sec slew rate	
Power factor (PF)	>0.98 @ load > 50%	
I thd	< 5%	
Nominal input current	77 A @ 380 V, 73 A @ 400 V, or 70 A @ 415 V	
Maximum input current (Nominal Vin, 10% charging batteries)	<u>84.4 A @ 380 V, 80.2 A @ 400 V, or 77.3 A @ 415 V</u>	
Input current limit	98.3 A @ 380 V/400 V/415 V	
Maximum input short-circuit level	30 kA	
Protection	Backfeed contactor	
<b>Bypass input (Bypass operation)</b>		
Grid system	3 phases + neutral + ground	
Voltage (nominal)	380 V/400 V/415 V	
Voltage (range)	+/-10% (from selected voltage)	
Frequency (nominal)	50/60 Hz	
Frequency (range)	+/-0.1 Hz, +/-3 Hz, +/-10 Hz (user selectable)	
Nominal input current	73 A @ 380 V; 69 A @ 400 V; 67 A @ 415 V	
Maximum overload input current	84.4 A @ 380 V; 80.2 A @ 400 V; 77.3 A @ 415 V	
<b>Output</b>		
Power rating	48 kW	
Grid system	3 phases + neutral + ground	
Voltage (nominal)	380 V/400 V/415 V L-L	
Output Current (nominal)	73 A @ 380; 69 A @ 400 V; 67 A @ 415 V	
Maximum battery operation time	Unlimited	
Frequency regulation	50/60 Hz bypass synchronized, 50/60 Hz +/-0.1% free running	
Synchronized slew rate	Programmable to 0.25, 0.5, 1, 2, 4, 6 Hz/sec	
Overload (normal and battery operation)	150% for 60 seconds, 125% for 10 min, 100% continuous	
V thd	< 2% from 0 to 100% linear load, < 6% full nonlinear load according to IEC/EN62040-3	
Load PF	from 0.5 leading to 0.5 lagging without any derating	
<b>Efficiency</b>		
Normal operation	≥ 95% at 35% – 100% load; ≥90% @ 15% – 34% load	
Battery operation	≥ 94% at 25% – 100% load; ≥90% @ 15% – 34% load	
<b>Mechanical</b>		
Maximum dimensions (HxWxD)	1991 x 600 x 1070 mm	
Net weight	796 kg	
Shipping weight	858 kg	
<b>UPS frame maximum capacity</b>		
16 kW power modules	3	
Battery modules	4	
Power distribution modules	6	
<b>Regulatory compliance</b>		
CE, UL1778, EN/IEC 62040-1-1, EN/IEC/UL60950-1, EN50091-2/IEC 62040-2 (class A), FCC15A, EN/IEC 62040-3		