

Product Brochure

Low-power UPS



EGYPT
LAPTOP
END USER & CORPORATE

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1 Who we are?

Accurate Projects Company is interested in electromechanical contracting projects, especially within the petroleum sector, construction, banking and industry.

It was established in 2017 as a limited liability company, and since its inception, it has implemented large projects such as the main cooling plant in the strategic leadership project (the largest national project), as the partner electric contractor in the third station, and other projects in the industrial and construction sector such as the Ministry of Endowments building in the new administrative capital, as shown in the previous reference Business list.

The company is also concerned with maintenance, services, rehabilitation and retrofit. It has the technical personnel to carry out these tasks.

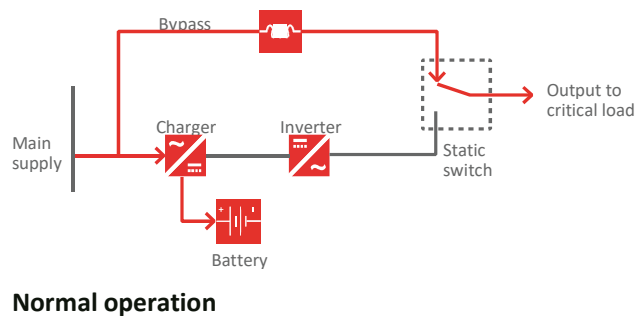
Recently the company started to take an interest in trading and supplies, and we established a sales department for trading. The department is managed by a group of sales engineers with experience in this field in the Egyptian market. We have a direct supplying for ABB low power UPS up to 50KVA which detail focused in this brochure.

In addition, we are working in other products from Eaton and Siemens that detailed in other brochures.

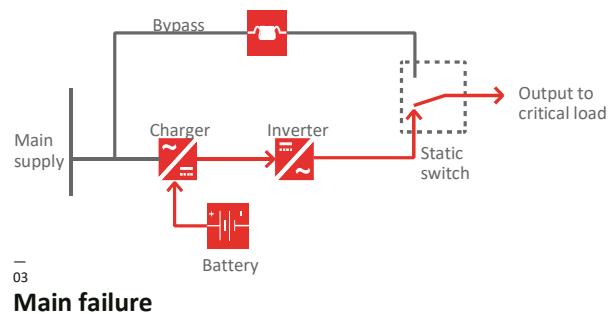
2 UPS introduction- UPS topologies

Line-interactive

The line-interactive UPS operates similarly to the offline/standby UPS in that it typically supplies the critical load through the bypass line and then transfers it to the inverter in the event of a bypass supply failure. The line-interactive system utilizes the battery, charger and inverter in the same manner as the offline/standby unit, but with added circuit regulators in the bypass line. This regulator transfers the load to the battery-fed inverter supply less frequently, which makes the line-interactive UPS more efficient in operation costs and battery wear and tear compared to the offline/standby UPS system.



The figure shows the line-interactive UPS system during normal operation and mains failure. During normal operation, the mains supply powers the electrical load through the bypass line and charges the battery if needed. During mains failure, the battery supplies power to the inverter which provides power to the electrical load.



Online/double-conversion

An online UPS offers the most comprehensive solution in uninterruptible power. The online UPS system replaces the battery charger with a rectifier/charger block, which is either two separate units or a combined power block.

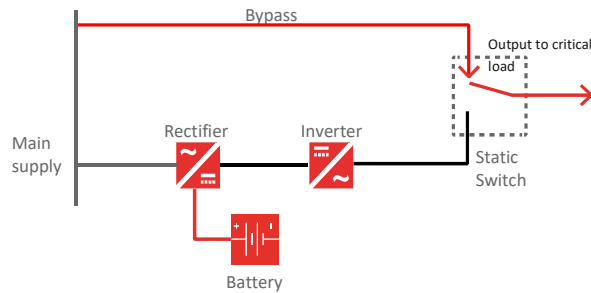
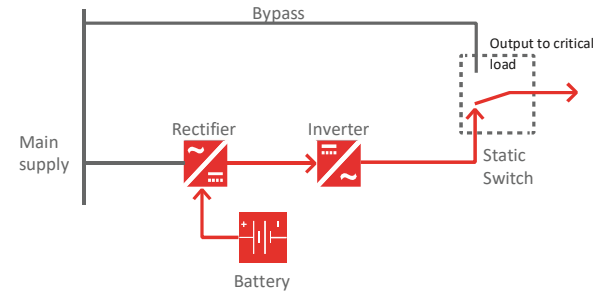
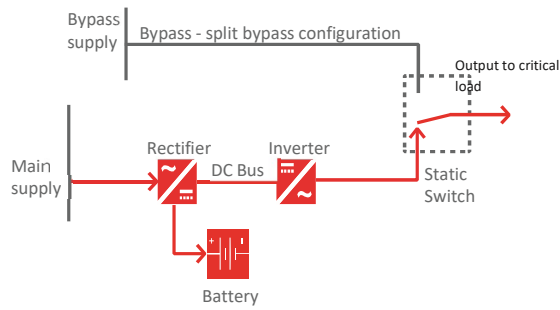
The figure below illustrates the online UPS system during normal operation, mains failure and UPS failure on bypass mode. When mains power is present, this power block charges the battery and supplies the inverter with a steady voltage supply. During mains failure, the UPS rectifier drops from the circuit, allowing the batteries to maintain constant and uninterrupted power. When power is restored, the rectifier begins carrying most of the load and recharging the batteries.

The rectifier/charger has a control feature that has an input current limit feature that protects critical equipment that is sensitive to minor power fluctuations from losing power. This type of UPS is perfect for environments containing sensitive electrical equipment that mandates isolation.

This UPS is also known as the double conversion UPS due to its two conversion stages of AC-DC and DC-AC. The double conversion UPS offers the greatest degree of critical power supply integrity. When the UPS input mains supply is present, the rectifier, charger, and inverter power blocks are all active and the load is connected to the inverter output from the static switch. As the load is powered from the inverter during normal operation circumstances, it is protected from power fluctuations and disturbances since the rectifier and inverter act as a "firewall" between the equipment and mains power voltage fluctuations.

If the mains input supply fluctuates above or below a preset voltage range (typically +10% to -20%) or suffers a total failure, the inverter continues operating from battery power and the event is completely transparent to the electrical load. This is because there is no power transfer operation involved.

When operating from battery power, the inverter supplies steady regulation as when the mains is present. If the mains power is not restored before the battery is depleted, then the inverter shuts down.



3 ABB Product overview

Product	PowerValue 11LI Up/Pro 600-2000 VA	PowerValue 11T G2 1-10 kVA	PowerValue 11 RT 1-10 kVA	PowerValue 11 / 31 T 10-20 kVA	PowerScale 33 10-50 kVA
					
Description	Cost-effective power protection and automatic voltage correction for lower power operations and entry-level network applications such as server rooms in offices, workstations and point-of-sale.	Cost-effective power protection for entry-level server rooms, lab equipment, ATM and other sensitive electronic devices	Professional single-phase UPS for the most demanding applications, it maintains the power for critical servers, PoS, workstations, clusters and eliminates	The ideal power protection for large IT rooms, networks and critical applications with its high power capability and redundancy	The high-performance three-phase UPS for low-power applications to minimize your total cost of ownership (TCO) providing state-of-art and flexible power uptime



4 PowerValue 11T G2 1-10 kVA

A cost-effective solution for maximum power protection



UPS configuration

Standard

- Tower-type, IP20 UPS enclosure
- Single-phase in and out
- Online double conversion UPS
- Featuring voltage and frequency independent (VFI) topology, the tower-only PowerValue 11T G2 saves costs by minimizing energy losses with its double conversion efficiency of up to 95%
- Paralleling up to three units allows for increase of capacity to 30 kW or redundancy (6-10 kVA only)
- Operator and status LCD
- Wide voltage input frequency range
- User-replaceable batteries
- Inbuilt batteries (B/B2 versions only)
- Maintenance bypass switch (6-10 kVA only) • Plug-and-play

Options

- Additional battery cabinets (EBM) for scaling autonomy time • SNMP, ModBus and AS400 interface cards for remote control and monitoring of the UPS via a web browser
- Sensors – combined with the network interface card, environmental humidity and temperature sensors can be integrated into the system and monitored remotely
- Connectivity functionality via Winpower SNMP (network management card), mini SNMP, ModBus, mini ModBus, EMP (environmental monitoring probe), AS400 and mini AS400
- Available to connect with up to four parallel battery modules for extended runtime

Technical specifications

GENERAL DATA	G2 1kVA B/ S	G2 2kVA B/ S	G2 3kVA B/ S	G2 6kVA B/ B2 / S	G2 10kVA B/ B2 / S
Output rated power	900 W	1'800W	2'700W	6'000W	10 '000W
Output power factor	0.9	0.9	0.9	1.0	1.0
Topology	Online double conversion				
Parallel configuration	No	No	No	Yes, up to 3 UPS	Yes, up to 3 UPS
Inbuilt batteries	Yes/No	Yes/No	Yes/No	Yes/Yes/No	Yes/Yes/No
INPUT					
Nominal input voltage	220/230/240 VAC			208/220/230/240 VAC	
Input voltage tolerance	100-300 VAC (load dependent)			100-276 (load dependent)	
Input current THDi	5% with full resistive load			<3 % with full resistive load	
Frequency range	45-55 Hz / 54-66 Hz			45-55Hz / 54-66Hz (extendable to 40~70HZ at load < 60%)	
Power factor	≥0.99			≥0.995	
OUTPUT					
Rated output voltage	220/230/240 VAC			208/220/230/240 VAC	
Voltage tolerance	±1 % (referred to 230V)				
Voltage distortion	<2% linear load, <6% non linear load			<1 % linear load, <5% non linear load	
Overload capacity (linear load) on inverter	60s: 106-130% load 10s: 131-150% load 300ms:> 150% load			10 m: 102-125% load 30s: 126-150% load 500ms:> 150% load	
Nominal frequency	50 or 60 Hz				
Crest factor	3:1 (load supported)				
EFFICIENCY					
Overall system efficiency	Up to 89%	Up to 91%	Up to 91%	Up to 95%	
In eco-mode	Up to 97.5%	Up to 98%	Up to 98%	Up to 98%	
ENVIRONMENT					
Protection rating	IP20				
Storage temperature	UPS: -25°C to 60°C; Batteries: 0 °C to 35°C				
Operating temperature	0°C to 40°C			0 °-40°C (up to 50°C at 50% load)	
Relative humidity	0% to 95%				
Altitude (above sea level)	1000 m without derating				
BATTERIES					
Type	VRLA (valve regulated lead-acid)				
Inbuilt batteries	2x9.4 Ah (B)	4x9.4Ah(B)	6x9.4Ah(B)	16x9Ah(B) 20x9Ah (B2)	16 x9Ah(B) 20 x9Ah (B 2)
Charging current	1.5A/3-6A adjustable	1.5A/1.5-6A adjustable	1.5A/1.5-6A 0-4 A adjustable (B,B 2) adjustable 0-12 adjustable (S)		
Recharge time (inbuilt batteries)	4 h to 90%				
COMMUNICATIONS					
User interface	LCD display				
Optional communication cards	SNMP;ModBus;AS400;Environmental monitoring sensor probe				
STANDARDS					
Safety	IEC/EN 62040-1				
EMC	IEC/EN 62040-2				
Performance	IEC/EN 62040-3				
Manufacturing	ISO 9001:2015, ISO 14001:2015, OHSAS 18001				
WEIGHT, DIMENSIONS					
Weight	9.2/3.9 Kg	17.4/6.4 Kg	22.7/6.4 Kg	61/73/13 Kg	55.2/65.2/15.2 Kg
Dimensions w x h x d	144x228x356 mm 102x228x346mm	190x327x399 mm 102x327x390 mm	190x327x399 mm 102x327x390 mm	B / B2: 225 x 589x 452 mm S: 225x 348 x 452 mm	B / B2: 225 x 589x 452 mm S: 225x 348 x 452 mm

Ordering info table

UPS	External battery module (EBM)	Article number	Power (VA/W)	Typical runtime (min)	Dimensions WxHxD (mm)	Weight (kg)
PowerValue						
11T G2 1kVA B		4NWP100160R0001	1000/900	13.5	144x228x356	9.3
+	EBM 11T G2 1kVA	4NWP100165R0001	1000/900	65	144x228x356 / pc	18.4 / pc
+	2xEBM 11T G2 1kVA	2x4NWP100165R0001	1000/900	130		
+	3xEBM 11T G2 1kVA	3x4NWP100165R0001	1000/900	200		
+	4xEBM 11T G2 1kVA	4x4NWP100165R0001	1000/900	275		
PowerValue						
11T G2 2kVA B		4NWP100161R0001	2000/1800	14	190x327x399	17.2
+	EBM 11T G2 2kVA	4NWP100166R0001	2000/1800	68	190x327x399 / pc	36.2 / pc
+	2xEBM 11T G2 2kVA	2x4NWP100166R0001	2000/1800	135		
+	3xEBM 11T G2 2kVA	3x4NWP100166R0001	2000/1800	210		
+	4xEBM 11T G2 2kVA	4x4NWP100166R0001	2000/1800	290		
PowerValue						
11T G2 3kVA B		4NWP100162R0001	3000/2700	14	190x327x399	22.2
+	EBM 11T G2 3kVA	4NWP100167R0001	3000/2700	45	190x327x399 / pc	36.2 / pc
+	2xEBM 11T G2 3kVA	2x4NWP100167R0001	3000/2700	90		
+	3xEBM 11T G2 3kVA	3x4NWP100167R0001	3000/2700	135		
+	4xEBM 11T G2 3kVA	4x4NWP100167R0001	3000/2700	185	190x327x399 / pc	36.2 / pc
PowerValue						
11T G2 6kVA B		4NWP100163R0001	6000/6000	14	225x589x452	61.2
+	EBM 11T G2 6-10kVA (16x9)	4NWP100168R0001	6000/6000	64	225x589x452 / pc	95.2 / pc
+	2xEBM 11T G2 6-10kVA (16x9)	2x4NWP100168R0001	6000/6000	129		
+	3xEBM 11T G2 6-10kVA (16x9)	3x4NWP100168R0001	6000/6000	204		
+	4xEBM 11T G2 6-10kVA (16x9)	4x4NWP100168R0001	6000/6000	237		
PowerValue 11T						
G2 6kVA B2		4NWP100163R0002	6000/6000	19	225x589x452	72.4
+	EBM 11T G2 6-10kVA (20x9)	4NWP100168R0002	6000/6000	87	225x589x452	115.6 / pc
+	2xEBM 11T G2 6-10kVA (20x9)	2x4NWP100168R0002	6000/6000	175		
+	3xEBM 11T G2 6-10kVA (20x9)	3x4NWP100168R0002	6000/6000	276		
+	4xEBM 11T G2 6-10kVA (20x9)	4x4NWP100168R0002	6000/6000	390		
PowerValue 11T						
G2 10kVA B		4NWP100164R0001	10000/10000	7	225x589x452	60.9
+	EBM 11T G2 6-10kVA (16x9)	4NWP100168R0001	10000/10000	31	225x589x452 / pc	95.2 / pc
+	2x EBM 11T G2 6-10kVA (16x9)	2x4NWP100168R0001	10000/10000	64	225x589x452 / pc	95.2 / pc
+	3x EBM 11T G2 6-10kVA (16x9)	3x4NWP100168R0001	10000/10000	101		
+	4x EBM 11T G2 6-10kVA (16x9)	4x4NWP100168R0001	10000/10000	143		
PowerValue 11T						
G2 10kVA B2		4NWP100164R0002	10000/10000	9	225x589x452	70.9
+	EBM 11T G2 6-10kVA (20x9)	4NWP100168R0002	10000/10000	43	225x589x452	115.6 / pc
+	2xEBM 11T G2 6-10kVA (20x9)	2x4NWP100168R0002	10000/10000	87		
+	3xEBM 11T G2 6-10kVA (20x9)	3x4NWP100168R0002	10000/10000	137		
+	4xEBM 11T G2 6-10kVA (20x9)	4x4NWP100168R0002	10000/10000	194		

Table 1: Ordering info (UPS with internal batteries)



5 PowerValue 11 RT G2 1-10 kVA IEC

The single-phase UPS for critical applications



UPS configuration

- Online double conversion UPS
 - Unity power factor (kW = kVA)
 - Efficiency in online mode up to 95%
 - Efficiency in eco-mode up to 98%
 - Configurable in tower format or rack-mount
 - Three 6 kVA and 10 kVA UPSs (max 30 kW per system) can be connected in parallel for redundancy or extra capacity
 - Cold start
 - Frequency-converter operation (50 Hz or 60 Hz)
 - Interfaces: USB, RS-232, potential-free contacts,
 - EPO
 - Load segmentation
- (for PowerValue 11RT G2 1-3 kVA)

Options

- Rack installation kit allows for easy mounting in standard 19" rack
- Full-range connectivity: SNMP, ModBus (RS-485 and TCP/IP), environmental monitoring probe, relay card with I/O contacts
- External maintenance bypass
- 1U automatic transfer switch (ATS)
(PowerValue 11RT G2 1-3 kVA)
- High capacity external battery modules (EBMs) to scale up the system runtime (a plug-and-play cable included to connect UPS and other battery modules)

Technical specification

GENERAL DATA	G2 1kVA B/ S	G2 2kVA B/ S	G2 3kVA B/ S	G2 6kVA B/ B2 / S	G2 10kVA B/ B2 / S
Output rated power	1000 W	2'000W	3000W	6'000W	10 '000W
Output power factor	1.0	1.0	1.0	1.0	1.0
Topology	Online double conversion				
Parallel configuration	No	No	No	Yes, up to 3 UPS	Yes, up to 3 UPS
Inbuilt batteries	Yes/No	Yes/No	Yes/No	No	No
INPUT					
Nominal input voltage	208/220/230/240 VAC			208/220/230/240 VAC	
Input voltage tolerance	120-300 VAC (load dependent)			100-276 (load dependent)	
Input current THDi	<5% with full resistive load			<3 % with full resistive load	
Frequency range	45-55 Hz / 54-66 Hz			45-55Hz / 54-66Hz (extendable to 40~70HZ at load < 60%)	
Power factor	≥0.99			≥0.995	
OUTPUT					
Rated output voltage	208/220/230/240 VAC			208/220/230/240 VAC	
Voltage tolerance	±1 % (referred to 230V)				
Voltage distortion	<2% linear load, <5% non linear load			<1 % linear load, <5% non linear load	
Overload capacity (linear load) on inverter	60s: 102-129% load 10s: 130-150% load 300ms:> 150% load			10 m: 102-125% load 30s: 126-150% load 500ms:> 150% load	
Nominal frequency	50 or 60 Hz				
Crest factor	3:1 (load supported)				
EFFICIENCY					
Overall system efficiency	Up to 92%			Up to 95%	
In eco-mode	Up to 98%			Up to 98%	
ENVIRONMENT					
Protection rating	IP20				
Storage temperature	UPS: -25°C to 60°C; Batteries: 0 °C to 35°C				
Operating temperature	0°C to 40°C				
Relative humidity	0% to 95%				
Altitude (above sea level)	1000 m without derating				
BATTERIES					
Type	VRLA (valve regulated lead-acid)				
Inbuilt batteries	2x9.4 Ah (B)	4x9.4Ah(B)	6x9.4Ah(B)		
Max charging current	1.5A/6A	1.5A/6A	1.5A/6A	0-12 A adjustable	
COMMUNICATIONS					
User interface	LCD				
Optional communication cards	SNMP;ModBus;AS400;Environmental monitoring sensor probe				
STANDARDS					
Safety	IEC/EN 62040-1				
EMC	IEC/EN 62040-2				
Performance	IEC/EN 62040-3				
Manufacturing	ISO 9001:2015, ISO 14001:2015, OHSAS 18001				
WEIGHT, DIMENSIONS					
Weight	11.4/5.8 Kg	18.1/8.7 Kg	27.9/9 Kg	13.6 Kg	15.5 Kg
Dimensions w x h x d	438x86(2U)x309 mm	438x86(2U)x426 mm	438x86(2U)x629 mm	438x86(2U)x573mm	438x86(2U)x573 mm

Ordering info table

UPS	External battery module (EBM)	Article number	Power (VA/W)	Typical runtime (min)	Dimensions WxHxD (mm)	Weight (kg)
PowerValue						
11RT G2 1 kVA B		4NWP100200R0001	1000/1000	13'	438x86 (2RU)x309	11.4
+	EBM 11RT G2 1 kVA	4NWP100203R0001	1000/1000	49'	438x86 (2RU)x309/pc	17.9 /pc
+	2xEBM 11RT G2 1 kVA	2x4NWP100203R0001	1000/1000	89'		
+	3xEBM 11RT G2 1 kVA	3x4NWP100203R0001	1000/1000	128'		
+	4xEBM 11RT G2 1 kVA	4x4NWP100203R0001	1000/1000	170'		
PowerValue						
11RT G2 2 kVA B		4NWP100201R0001	2000/2000	13'	438x86 (2RU)x426.5	19.1
+	EBM 11RT G2 2 kVA	4NWP100204R0001	2000/2000	50'	438x86 (2RU)x426.5	31.3 /pc
+	2xEBM 11RT G2 2 kVA	2x4NWP100204R0001	2000/2000	90'		
+	3xEBM 11RT G2 2 kVA	3x4NWP100204R0001	2000/2000	131'		
+	4xEBM 11RT G2 2 kVA	4x4NWP100204R0001	2000/2000	172'		
PowerValue						
11RT G2 3 kVA B		4NWP100202R0001	3000/3000	13'	438x86 (2RU)x629	27.9
+	EBM 11RT G2 3 kVA	4NWP100205R0001	3000/3000	51'	438x86 (2RU)x629	44.9 /pc
+	2xEBM 11RT G2 3 kVA	2x4NWP100205R0001	3000/3000	91'		
+	3xEBM 11RT G2 3 kVA	3x4NWP100205R0001	3000/3000	133'		
+	4xEBM 11RT G2 3 kVA	4x4NWP100205R0001	3000/3000	173'		

Table 3: Ordering info (UPS with internal batteries)

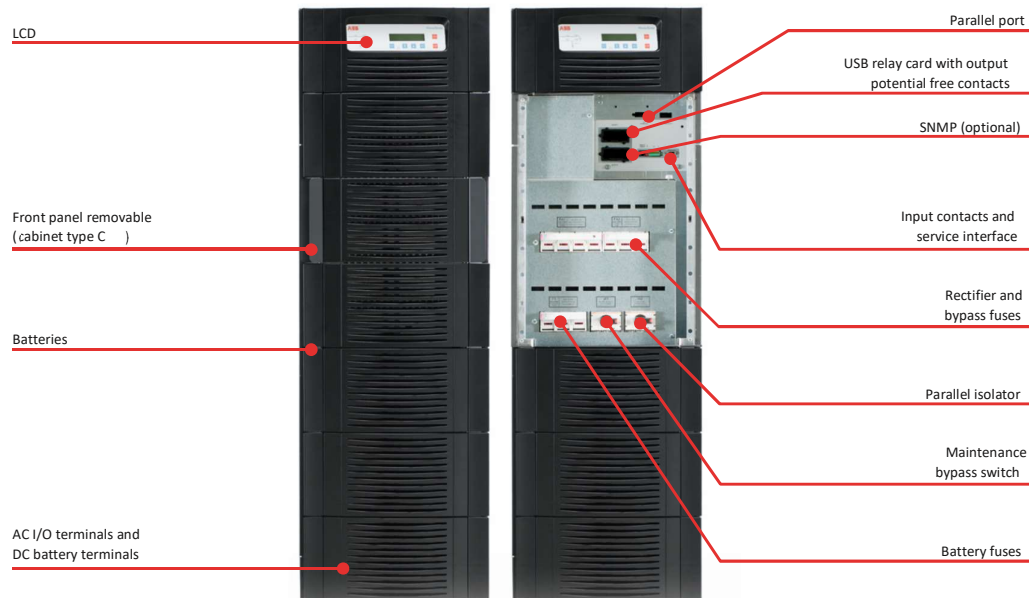
UPS	External battery module (EBM)	Article number	Power (VA/W)	Typical runtime (min)	Dimensions WxHxD (mm)	Weight (kg)
PowerValue						
11RT G2 1 kVA S		4NWP100200R0007	1000/1000	-	438x86 (2RU)x309	5.8
+	EBM 11RT G2 1 kVA	4NWP100203R0001	1000/1000	29'	438x86 (2RU)x309/pc	17.9 /pc
+	2xEBM 11RT G2 1 kVA	2x4NWP100203R0001	1000/1000	71'		
+	3xEBM 11RT G2 1 kVA	3x4NWP100203R0001	1000/1000	109'		
+	4xEBM 11RT G2 1 kVA	4x4NWP100203R0001	1000/1000	152'		
PowerValue						
11RT G2 2 kVA S		4NWP100201R0007	2000/2000	-	438x86 (2RU)x426.5	8.7
+	EBM 11RT G2 2 kVA	4NWP100204R0001	2000/2000	30'	438x86 (2RU)x426.5	31.3 /pc
+	2xEBM 11RT G2 2 kVA	2x4NWP100204R0001	2000/2000	72'		
+	3xEBM 11RT G2 2 kVA	3x4NWP100204R0001	2000/2000	110'		
+	4xEBM 11RT G2 2 kVA	4x4NWP100204R0001	2000/2000	154'		
PowerValue						
11RT G2 3 kVA S		4NWP100202R0007	3000/3000	-	438x86 (2RU)x629	9
+	EBM 11RT G2 3 kVA	4NWP100205R0001	3000/3000	31'	438x86 (2RU)x629	44.9 /pc
+	2xEBM 11RT G2 3 kVA	2x4NWP100205R0001	3000/3000	73'		
+	3xEBM 11RT G2 3 kVA	3x4NWP100205R0001	3000/3000	111'		
+	4xEBM 11RT G2 3 kVA	4x4NWP100205R0001	3000/3000	155'		

Table 4: Ordering info (UPS with enhanced battery charger)



6 PowerScale 33 10-50 kVA

The three-phase UPS for low power applications



UPS configuration

- Online double conversion UPS
- Capacities from 10 kVA to 50 kVA in three different cabinet sizes
- Input, bypass and battery protection fuses
- Manual bypass switch
- Up to 95.5% efficiency across a wide load range
- Single- and dual-input feed available
- Integrated back-feed protection
- Communication interfaces: RS-232 and USB ports, input dry contacts (EPO, GEN On, ...)
- With or without internal batteries
- Parallel ready (up to 20 units)
- Relay card with USB and output potential free contacts

Options

- Battery temperature sensor
- External battery cabinets
- ModBus RS-485, ModBus TCP/IP, SNMP

Technical specification

General data	10 kVA	15 kVA	20 kVA	25 kVA	30 kVA	40 kVA	50 kVA
Output power max.	9 kW	13.5 kW	18 kW	22.5 kW	27 kW	36 kW	45 kW
Output power factor	0.9						
Topology	Online double con version						
Parallel configuration	Up to 20 unit s in parallel configuration						
UPS type	Standalone						
Inbuilt batteries	Yes (model dependent)						
Input							
Nominal input voltage	3× 380 V / 220 V + N, 3× 400 V / 230 V + N, 3× 415 V / 240 V + N						
Voltage tolerance (referred to × 400 V / 230 V)	For loads <1 00 % (–10%, +15%), <80% (–20%, +15%), <60% (–30%, +15%)						
Input distortion THDi	≤3 at 100 % (sine wave)						
Frequency	35–70 Hz						
Power factor	0.99 at 100 % load						
Output							
Rated output voltage	3× 380 V / 220 V + N, 3× 400 V / 230 V + N, 3× 415 V / 240 V + N						
Voltage tolerance (referred to × 400 V / 230 V)	1 % (static), 4% (dynamic)						
Voltage distortion	<2% linear load, <4% non linear load (IEC / EN62040-3)						
Frequency	50 Hz or 60 Hz						
Overload capability	5 min.:110 % or 20 sec.: 125 % (10 kVA - 25 kVA); 10 min.: 110 % or 1 min.: 125 % (30 kVA - 50 kVA)						
Unbalanced load	100 % (all three phases regulated independently)						
Crest factor	3 : 1 (load supported)						
Efficiency							
Overall efficiency	Up to 95.5%						
In eco-mode configuration	98 %						
Environment							
Storage temperature	–25 °C to +70 °C						
Operating temperature	0 °C to +40 °C						
Altitude	1000 m without derating						
Battery							
Battery type	7 Ah / 8 Ah, sealed, lead-acid, maintenance-free, 6-9 years design lifetime						
Battery replacement	Field-replaceable						
Battery voltage	Flexible voltage for longer backup times						
Max battery capacity	48 or 96 × 7 / 8 Ah	48 or 96 × 7 / 8 Ah	48 or 96 × 7 / 8 Ah	96 or 144 × 7 / 8 Ah	144 × 7 / 8 Ah	144 × 7 / 8 Ah	144 × 7 / 8 Ah
Communications							
LCD	Yes (per module)						
LEDs	LED for notification and alarm						
Communication ports	RS-2 3 2 , SNMP slot, USB and potential-free contacts						
Standards							
Safety	IEC / EN 62040-1						
Electromagnetic compatibility (EMC)	IEC / EN 62040-2						
Performance	IEC / EN 62040-3						
Product certification	CE						
Protection rating	IP 20						
Manufacturing	ISO 9001:2015, ISO 14001:2015 , OHSAS 18001						
Weight, dimensions							
Cabinet type	A or B	A or B	A or B	B or C	C	C	C
Weight	48 (cab A) 68 (cab B)	48 (cab A) 68 (cab B)	48 (cab A) 68 (cab B)	68 (cab B) 177 (cab C)	177 kg	177 kg	177 kg
Dimensions w × h × d (mm)	345 × 720 × 710 or 345 × 720 × 710 or 345 × 720 × 710 or 345 × 1045 × 710 or 440 × 1400 × 910 440 × 1400 × 910 440 × 1400 × 910 440 × 1400 × 910						

Ordering info table

UPS	External battery cabinet	Article number	Power (VA/W)	Batteries info runtime	Typical (min)	Dimensions WxHxD (mm)	Weight (kg)
UPS Powerscale 33							
10kVA Cab.A w/o batt.		4NWP103584A1000	10000/9000			345x720x710	48
+	C-BATT88	4NWP103674BC088	10000/9000	2x44x28Ah	125	490x1400x940	1015*
UPS Powerscale 33							
10kVA Cab.A 10 min		4NWP103584A1010	10000/9000	28x8Ah	10	345x720x710	118
UPS Powerscale 33							
10kVA Cab.A 15 min		4NWP103584A1015	10000/9000	38x8Ah	15	345x720x710	143
UPS Powerscale 33							
10kVA Cab.A 20 min		4NWP103584A1020	10000/9000	46x8Ah	20	345x720x710	163
UPS Powerscale 33							
15kVA Cab.A w/o batt.		4NWP103584A1500	15000/13500			345x720x710	48
+	C-BATT88	4NWP103674BC088	15000/13500	2x44x28Ah	110	490x1400x940	1015*
UPS Powerscale 33							
15kVA Cab.A 10 min		4NWP103584A1510	15000/13500	42x8Ah	10	345x720x710	153
UPS Powerscale 33							
15kVA Cab.A 12 min		4NWP103584A1512	15000/13500	48x8Ah	12	345x720x710	168
UPS Powerscale 33							
20kVA Cab.A w/o batt.		4NWP103584A2000	20000/18000			345x720x710	48
+	C-BATT88	4NWP103674BC088	20000/18000	2x44x28Ah	60	490x1400x940	1015*
UPS Powerscale 33							
20kVA Cab.A 8 min		4NWP103584A2008	20000/18000	48x8Ah	8	345x720x710	168
UPS Powerscale 33							
10kVA Cab.B w/o batt.		4NWP103584B1000	10000/9000			345x1045x710	68
+	C-BATT88	4NWP103674BC088	10000/9000	2x44x28Ah	125	490x1400x940	1015*
UPS Powerscale 33							
10kVA Cab.B 30 min		4NWP103584B1030	10000/9000	2x32x8Ah	30	345x1045x710	228
UPS Powerscale 33							
10kVA Cab.B 50 min		4NWP103584B1050	10000/9000	2x48x8Ah	50	345x1045x710	308
UPS Powerscale 33							
15kVA Cab.B w/o batt.		4NWP103584B1500	15000/13500			345x1045x710	68
+	C-BATT88	4NWP103674BC088	15000/13500	2x44x28Ah	110	490x1400x940	1015*
UPS Powerscale 33							
15kVA Cab.B 20 min		4NWP103584B1520	15000/13500	2x36x8Ah	20	345x1045x710	248
UPS Powerscale 33							
15kVA Cab.B 30 min		4NWP103584B1530	15000/13500	2x46x8Ah	30	345x1045x710	298
UPS Powerscale 33							
20kVA Cab.B w/o batt.		4NWP103584B2000	20000/180000			345x1045x710	68
+	C-BATT88	4NWP103674BC088	20000/180000	2x44x28Ah	60	490x1400x940	1015*
UPS Powerscale 33							
20kVA Cab.B 20 min		4NWP103584B2020	20000/180000	2x44x8Ah	20	345x1045x710	288
UPS Powerscale 33							
20kVA Cab.B 22 min		4NWP103584B2022	20000/180000	2x48x8Ah	22	345x1045x710	308
UPS Powerscale 33							
25kVA Cab.B w/o batt.		4NWP103584B2500	25000/22500		25	345x1045x710	68
+	C-BATT88	4NWP103674BC088	25000/22500	2x44x28Ah	50	490x1400x940	1015*
UPS Powerscale 33							
25kVA Cab.B 15 min		4NWP103584B2515	25000/22500	2x48x8Ah	15	345x1045x710	308

UPS	External battery cabinet	Article number	Power (VA/W)	Batteries info	Typical runtime (min)	Dimensions WxHxD (mm)	Weight (kg)
UPS Powerscale 33							
25kVA Cab.C w/o batt.		4NWP103584C2500	25000/22500			440x1400x910	177
+	C-BATT88	4NWP103674BC088	25000/22500	2x44x28Ah	50	490x1400x940	1015*
UPS Powerscale 33							
25kVA Cab.C 20 min		4NWP103584C2520	25000/22500	3x46x8Ah	20	440x1400x910	522
UPS Powerscale 33							
30kVA Cab.C w/o batt.		4NWP103584C3000	30000/27000			440x1400x910	177
+	C-BATT88	4NWP103674BC088		2x44x28Ah	42	490x1400x940	1015*
UPS Powerscale 33							
30kVA Cab.C 10 min		4NWP103584C3010	30000/27000	3x28x8Ah	10	440x1400x910	387
UPS Powerscale 33							
30kVA Cab.C 15 min		4NWP103584C3015	30000/27000	3x36x8Ah	15	440x1400x910	447
UPS Powerscale 33							
30kVA Cab.C 20 min		4NWP103584C3020	30000/27000	3x48x8Ah	20	440x1400x910	537
UPS Powerscale 33							
40kVA Cab.C w/o batt.		4NWP103584C4000	40000/36000			440x1400x910	177
+	C-BATT88	4NWP103674BC088	40000/36000	2x44x28Ah	31	490x1400x940	1015*
UPS Powerscale 33							
40kVA Cab.C 10 min		4NWP103584C4010	40000/36000	3x36x8Ah	10	440x1400x910	447
UPS Powerscale 33							
40kVA Cab.C 15 min		4NWP103584C4015	40000/36000	3x48x8Ah	15	440x1400x910	537
UPS Powerscale 33							
50kVA Cab.C w/o batt.		4NWP103584C5000	50000/45000			440x1400x910	177
+	C-BATT88	4NWP103674BC088	50000/45000	2x44x28Ah	21	490x1400x940	1015*
UPS Powerscale 33							
50kVA Cab.C 10 min		4NWP103584C5010	50000/45000	3x46x8Ah	10	440x1400x910	522

* Batteries included