



ABB India Helpline

Technical telephone support for
customers and channel partners.
Toll free: (BSNL) +91 1800 420 07 07

abb.com/ups





PowerValue 11T IN

A cost-effective solution for
maximum power protection



- Double conversion topology protects the load from all input disturbances
- Multiple connectivity options
- Adjustable battery charger current
- Remote monitoring options

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Electronic equipment supporting critical systems requires a continuous supply of power.

ABB's PowerValue 11T IN guarantees a flexible solution upto 10 kVA with clean uninterrupted power for critical single phase applications.

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PowerValue 11T IN

A cost-effective solution for maximum power protection

ABB's PowerValue 11T IN is a single-phase in/out, double conversion online uninterruptible power supply (UPS) that guarantees up to 9 kW per single UPS of clean, reliable power for your critical single-phase applications. As well as maintaining power to your server room, advertising display, turnstiles, lab equipment, transportation signaling systems, ATM or vending machine, the PowerValue 11T IN also conditions incoming power to eliminate spikes, swells, sags, noise and harmonics.

Featuring voltage and frequency independent (VFI) topology, the tower-only PowerValue 11T IN saves costs by minimizing energy losses with its double conversion efficiency of up to 93 percent (up to 98% in ECO mode).

Simple to install or maintain, inexpensive to run and with the most compact online UPS footprint available on the market, the PowerValue 11T IN provides stable, regulated, transient-free, pure sine wave AC power with extremely tight output voltage regulation. All units can be fitted with up to four external battery modules (EBMs) to extend runtime to well over two hours.

High reliability

- Double conversion topology protects the load from all input disturbances
- Wide input voltage tolerance

Low cost of ownership

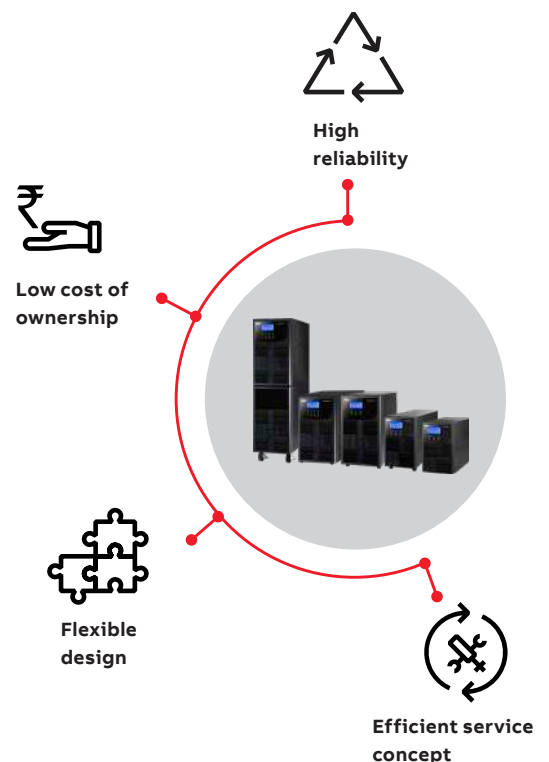
- Scalable runtime
- High operating efficiency
- Low installation and upgrading costs
- Compact design

Flexible design

- Multiple connectivity options
- Each UPS can be connected with up to four parallel battery modules for extended runtime
- Adjustable battery charger current
- Extended backup time models available
- Best power density available in the market segment

Efficient service concept

- Easy setup and maintenance (plug and play)
- User-friendly display
- Remote monitoring options



PowerValue 11T IN

Product features

The PowerValue 11T IN with its cost-effective ABB UPS technology makes a high-performance and is now available to market sectors with lower power requirements: Small server rooms, critical lab or industrial equipment and security installations.

With very compact online UPS footprint available, the PowerValue 11T IN features true on-line double conversion. This provides a flexible output frequency and isolates the UPS from upstream disturbances so that the critical load sees only stable, well-regulated, transient-free, pure sine wave AC power.

The UPS is optimized for modern IT loads and helps users reduce their energy budget with its double conversion efficiency of up to 93 percent (up to 98% in ECO mode).

- Low input line disturbances: input PF \geq 0.99 @ 100 percent linear load – THDi < 5 percent
- Flexible configuration for scalable runtime: UPS and EBMs with and without batteries (long backup)
- Digital charger technology provides accurate charger current/setting and reduces charger ripple current

All this with the same guaranteed high availability and quality standards as ABB's higher-power premium UPS models - and at the most attractive entry level price around.



Battery Autonomy

UPS Rating and Model	Internal batteries	Runtime with internal batteries	EBM	Runtime of UPS + 1 EBM	Runtime of UPS + 2 EBM	Runtime of UPS + 3 EBM	Runtime of UPS + 4 EBM
11T 1kVA B	9Ah x 2	4/6/10/23	--	--	--	--	--
11T 1kVA S	N/A	--	9Ah x 6	13/18/30/67	31/43/68/142	50/74/106/218	69/94/144/293
11T 2kVA B	9Ah x 4	4/6/11/23	--	--	--	--	--
11T 2kVA S	N/A	--	9Ah x 12	13/19/31/68	31/44/69/146	51/70/108/223	70/96/147/300
11T 3kVA B	9Ah x 6	4/6/11/24	--	--	--	--	--
11T 3kVA S	N/A	--	9Ah x 12	13/19/32/72	32/45/72/153	52/72/112/234	72/99/153/315
11T 6kVA B	9Ah x 16	6.8/10/17.8/42	--	--	--	--	--
11T 6kVA S	N/A	--	9Ah x 16	6.8/10/17.8/42	17.8/25/42/98	30/43/70/162	43/61/99/227
11T 10kVA B	9Ah x 20	4/6.8/12/29	--	--	--	--	--
11T 10kVA S	N/A	--	9Ah x 20	4/6.8/12/29	12/18/29/70	21/31/50/116	30.6/43/71/164

UPS configuration

Standard

- Tower-type, IP20 UPS enclosure
- Single-phase in and out
- Online double conversion UPS
- Operator and status LCD
- Wide voltage input frequency range
- Inbuilt batteries (B version only)
- Plug-and-play

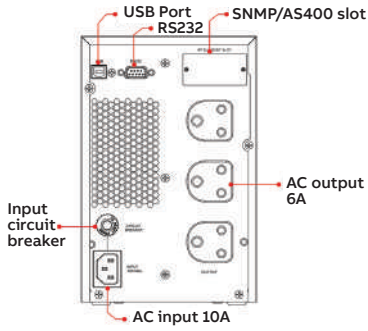
Options

- 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 WebPro SNMP (network management card), mini SNMP, ModBus, mini ModBus, EMP (environmental monitoring probe), AS400 and mini AS400

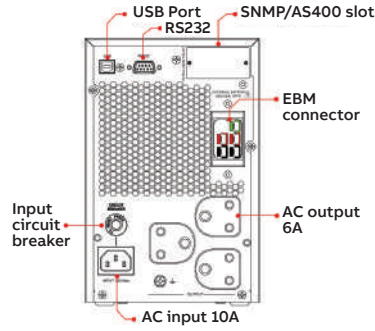
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Available models

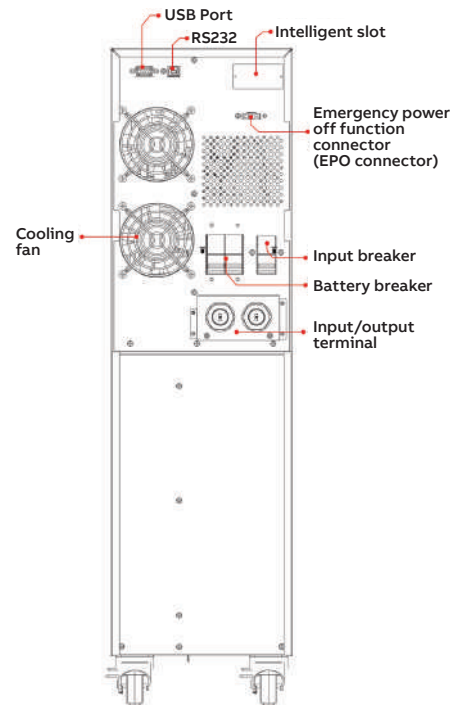
1 kVA B



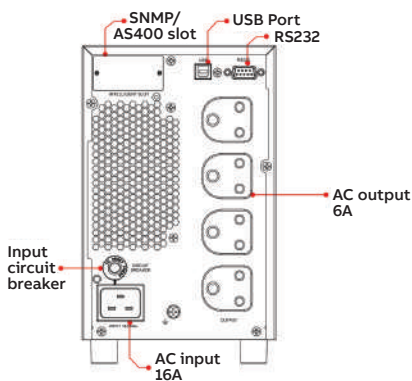
1 kVA S



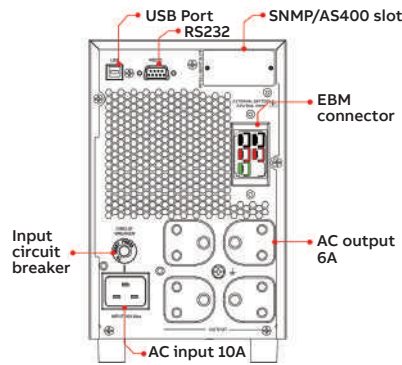
6 kVA B / 10 kVA B



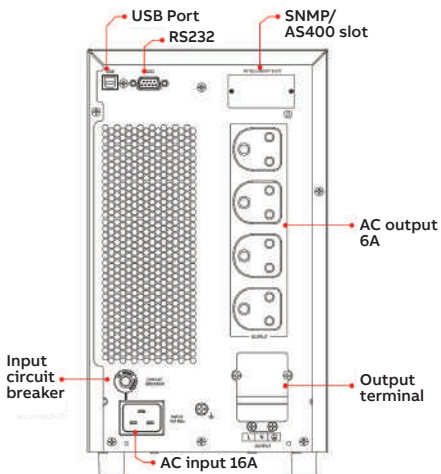
2 kVA B



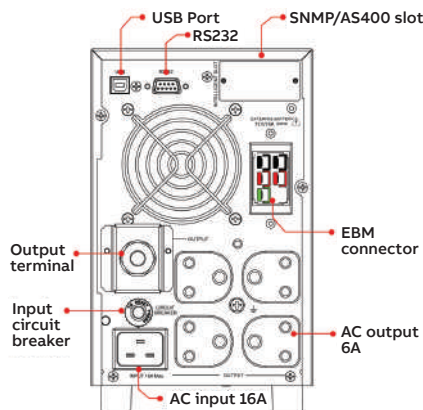
2 kVA S



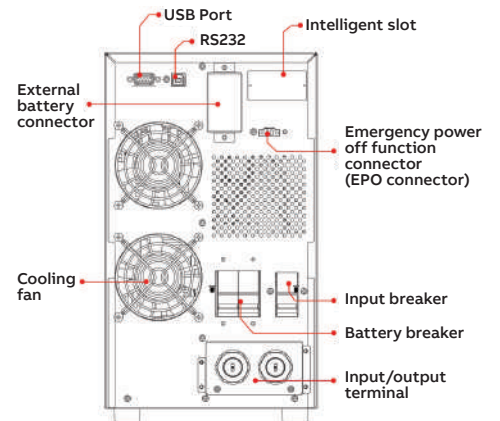
3 kVA B



3 kVA S



6 kVA S / 10 kVA S



PowerValue 11T IN

Technical specifications

GENERAL DATA	1kVA B/ S	2kVA B/ S	3kVA B/ S	6kVA B/ S	10kVA B/ S
Output rated power	900 W	1'800W	2'400W	5'400W	9'000W
Output power factor	0.9	0.9	0.9	0.9	0.9
Topology	Online double conversion				
Inbuilt batteries	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
INPUT					
Nominal input voltage	220/230/240 Vac			208/220/230/240 Vac	
Input voltage tolerance	100-300 Vac (load dependent)			110-300 Vac (load dependent)	
Input current THDi	≤12%			≤5%	
Frequency range	47-53 Hz			46-54Hz	
Power factor	≥0.95			≥0.99	
OUTPUT					
Rated output voltage	220/230/240 Vac			208/220/230/240 Vac	
Voltage tolerance	±1% (referred to 230V)				
Voltage distortion	<3% linear load, <6% non linear load			<3% linear load, <5% non linear load	
Overload capacity (linear load) on inverter	10m: 106-110% load 30s: 111-130% load 3s: ≥ 150% load			30m: 100-110% load 5m: 111 to 130% load 10s: ≥ 130% load	
Nominal frequency	50 Hz				
Crest factor	3:1 (load supported)				
EFFICIENCY					
Overall system efficiency	Up to 88%	Up to 88%	Up to 90%	Up to 92%	Up to 93%
In eco-mode	Up to 93%	Up to 94%	Up to 95%	Up to 98%	Up to 98%
ENVIRONMENT					
Protection rating	IP20				
Storage temperature	UPS: -20°C to 50°C; Batteries: 0°C to 35°C			UPS: -15°C to 60°C; Batteries: 0°C to 35°C	
Operating temperature	0°C to 50°C			0°-40°C	
Relative humidity	10% to 90%			0% to 95%	
Altitude (above see level)	1000m without derating				
BATTERIES					
Type	VRLA (valve regulated lead-acid)				
Inbuilt batteries	2x9.4 Ah (B)	4x9.4Ah(B)	6x9Ah(B)	16x9Ah(B)	20x9Ah(B)
Charging current	1.5A/4A adjustable	1.5A/4A adjustable	1.5A/4A adjustable	2A/6A adjustable	2A/6A adjustable
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	9.3/4.2 Kg	16.8/6.8 Kg	26.8/7.4 Kg	61Kg(B)/12 Kg(S)	76Kg(B)/16 Kg(S)
Dimensions w x h x d(mm)	145x223x288(B/ S)	145x238x400 (B/ S)	190x336x425 (B) 145x238x400 (S)	190 x 688x 369 (B) 190 x 318x 369 (S)	190 x 688x 442 (B) 198 x 318x 442 (S)

