

EssentialPower™ XST

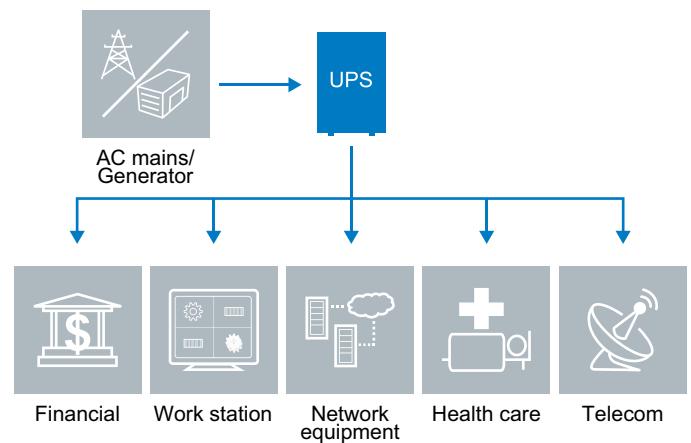
The Single Phase from 6kVA to 10kVA



Key features

- True double-conversion design with high adaptability to harsh mains conditions
- 0.9 output Power factor
- High efficiency result in energy saving and supports energy-saving ECO mode
- Intelligent communication slot enables remote monitoring (Optional)
- Wide input voltage and frequency range, support CVCF
- Parallel available with Parallel card (maximum 3, optional)
- Compliance CE

Typical application



Specification

Model name	EssentialPower XST 6K		EssentialPower XST 6KS	EssentialPower XST 10K	EssentialPower XST 10KS
Power rating	VA/Watt	6000VA/5400W	6000VA/5400W	10000VA/9000W	10000VA/9000W
Efficiency	Double conversion mode	94%			
	ECO mode	98%			
Input	Voltage range	185-275Vac @ 100% load, 120-185Vac derating to 50% load linear			
	Rated frequency	50/60Hz			
	Frequency range	40-70Hz (46-54/56-64Hz @ load>60%)			
Input connection	Wiring/socket	hardware terminal connection			
Output performance	Rated voltage	208/220/230/240VAC (derating to 90% load @208V)			
	Rated frequency	50/60Hz			
	Maximum PF	0.9			
	Voltage accuracy	+/-1%			
	THDv	<2%@linear load, <4%@non-linear load			
	Transfer time (line <-> battery)	0 ms			
	Crest Ratio	3:1 Max			
	Overload(line mode)	105%<load<=125% for 1 minutes;			
		125%<load<=150% for 30 seconds;			
load>150% for 0.5 seconds					
Output connection	Wiring/socket	Hardware terminal connection			
Battery	Voltage	180VDC	192VDC	192VDC	192VDC
	Inbuilt battery type	12Vx7Ah	NA	12Vx9Ah	NA
Charger	Charging current	1.2A	4A	1.2A	4A
	Recharging time (90%)	7H	NA	7H	NA
Other working mode	CVCF	Yes (derating to 60% load)			
	Parallel	3 Max (Optional card)			
HMI (human-machine interface)	Display	LCD			
	USB	No			
	RS232	Yes			
	EPO	Optional			
	Intelligent slot	Optional			
	Monitor software	WinPower			
Physical performance	Dimension(W*D*H)mm	248x500x616	212x500x420	248x500x616	212x500x420
	Net Weight(KG)	59	15	63	16
Environment	Operating temperature	0-40℃			
	Relative Humidity	20%-90%			
	Operating Altitude	0-3000m (derating 1% every 100m up @1000-3000m)			
	Acoustic Noise	<50dB			
Certification	certification/standard	CE, IEC/EN62040			
EMI	Conduction/Radiation	C3			

Specification

Model name		EssentialPower XST 6K	EssentialPower XST 6KS	EssentialPower XST 10K	EssentialPower XST 10KS
EMS	ESD	IEC61000-4-2, Level 3			
	RS	IEC61000-4-3, Level 3			
	EFT	IEC61000-4-4, Level 4			
	Surge	IEC61000-4-5, Level 4			
	Maintenance bypass switch	Optional			
Accessory	Input power cable	NA			
	Output power cable	NA			
	EBM cable	NA	Yes	NA	Yes
	RS232 cable	Yes			
	Manual	Yes			

EBM (External battery module)	Battery	NA	192VDC, 16*2*9Ah VRLA	NA	192VDC, 16*2*9Ah VRLA
	Dimension(W*H*D) mm	NA	225*416*589	NA	225*416*589
	Weight(Kg)	NA	95.2	NA	95.2

6-10k Runtime Estimates

backup time(mins)

Load percent	25%	50%	75%	100%
6K tower standard model	28.0	9.9	6.0	2.0

6KS Tower with 192V EBM

6KS tower +1 EBM	91.2	39.3	25.2	17.4
6KS tower +2 EBM	206.5	91.2	55.9	39.3
6KS tower +3 EBM	328.6	150.0	91.2	65.9
6KS tower +4 EBM	460.1	206.5	127.6	91.2

10K tower standard model

	22.3	8.6	2.6	1.3
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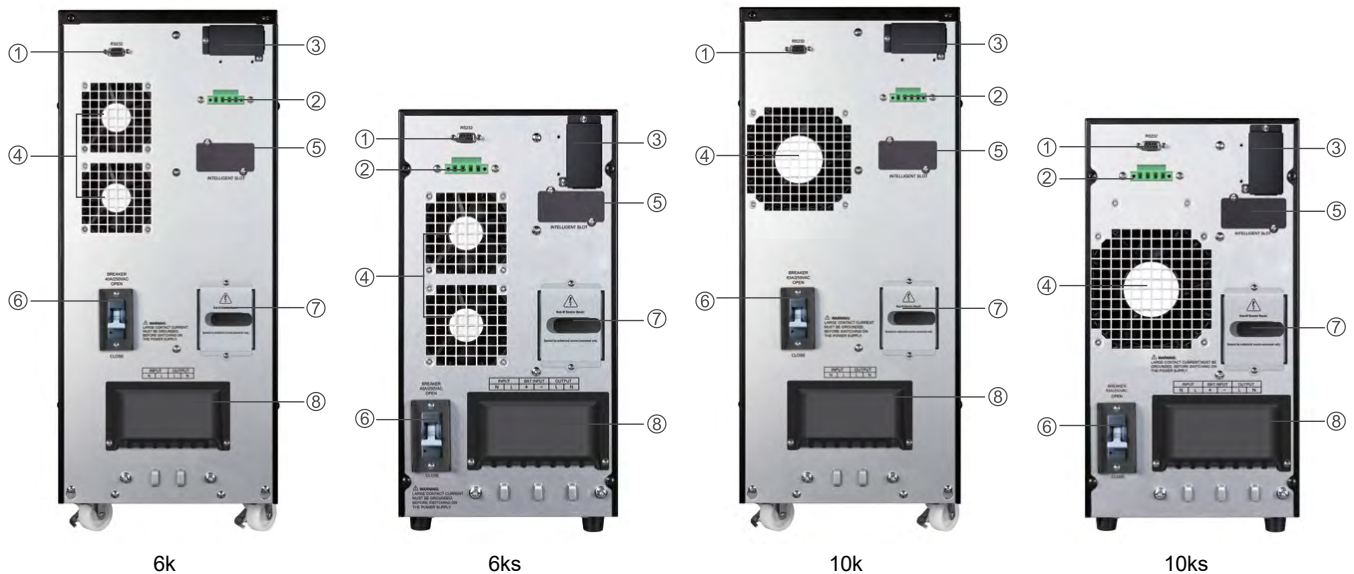
10KS Tower with 192V EBM

10KS tower +1 EBM	48.0	22.3	12.9	8.6
10KS tower +2 EBM	112.9	48.0	29.5	22.3
10KS tower +3 EBM	179.6	82.4	48.0	34.6
10KS tower +4 EBM	252.0	112.9	72.1	48.0

Runtimes shown at typical load with maximum power factor, are approximate and may vary with equipment, configuration, battery age, temperature, etc.



Rear panel



1. RS232 Port
2. EPO (optional)
3. Parallel Port (optional)
4. Fan
5. Communication Slot Box (optional)
6. Input Breaker
7. Maintenance Bypass Switch (optional)
8. Terminal Block Cover



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