



## ZP120N Online UPS

1,2,3,6,10,20 kVA  
single/single-phase and three/single-phase



- + HIGH POWER INTENSITY
- + STRONGEST PERFORMANCE
- + FLEXIBILITY
- + HIGH EFFICIENCY WITH LOW HEAT DISSIPATION
- + EXTENDABLE AUTONOMY

پو پی اس، باتری پو پی اس و استابلایزر



Smart Energy  
Solutions





# Technical Specifications

MODEL	ZP120N-1K	ZP120N-1K-KS*	ZP120N-2K	ZP120N-2K-KS*	ZP120N-3K	ZP120N-3K-KS*
Power Rating	1000VA/900W		2000VA/1800W		3000VA/2700W	
INPUT						
Rated Voltage	220Vac/230Vac/240Vac					
Voltage Tolerance	110Vac-300Vac					
Voltage Range - Line Low Transfer	176Vac/165Vac/110Vac (± 3%) based on load percentage 100%/75%/50%					
Voltage Range - Line High Transfer	300Vac (± 3%)					
Frequency Range	45-55Hz / 54-66Hz					
THDi %	<5% with full load					
Power Factor	≥0.99 (I/P:220V, FULL RCD LOAD)					
OUTPUT						
Rated Voltage	200VAC**/208VAC**/220VAC/230VAC/240VAC					
Voltage Regulation	± 2 %					
Rated Frequency AC Mode	50/60 Hz ± 0,2 %					
Crest Ratio	3:1					
Harmonic Distortion	< 3% THD, linear load					
Output Waveform	Pure Sinewave					
Overload Capability	105%-110%: 1 min; 110%-125%: 30 sec ; 125%-150%: 10 Sec; >150%: 1 sec					
Parallel	N/A					
Power Factor	0.9					
BATTERIES						
Type	Sealed lead acid battery, maintenance free					
Rating	12V/7Ah	According to capacity of external batteries	12V/7Ah	According to capacity of external batteries	12V/7Ah	According to capacity of external batteries
Number of batteries	3		8		8	
Back-up Time (typical load)***	>10 minutes		>18 minutes		>10 minutes	
DC Voltage	36Vdc		96Vdc		96Vdc	
Charging Time	< 5 hours					
GENERAL CHARACTERISTICS						
Transfer Time (Inverter to bypass)	0 ms					
Efficiency (online mode)	88%		88%		88%	
Dimensions WxDxH (mm)	145x400x220		192x460x347			
Net Weight (kg)	13	7	31	13	31	13
Operating Temperature	0°C ~ 40 °C					
Noise Level (at 1m)	< 50dB			< 55dB		
Humidity Tolerance	0-95% (no condensing)					
Interface standard via Smart USB	WinPower Software supports: Windows 95/98/NT/2000/XP/ME, Linux, Sun Solaris, IBM Aix, FreeBSD, HP-UX, and MAC					
Interface for Intelligent Slot	SNMP / RS485 / AS400 Card/ ModBus					
Compliance	<ul style="list-style-type: none"><li>• European Directives: L V 2006/95/CE Low voltage directive; EMC 2004/108/EC Electromagnetic compatibility directive</li><li>• Standards: Safety IEC EN 62040-1; EMC IEC EN 62040-2 C2</li><li>• Classification according to IEC 62040-3 (Voltage Frequency Independent) VFI - SS - 111</li></ul>					

\* ks versions are supplied with extra battery charger  
\*\* Derate to 90% with 208Vac output voltage.  
\*\*\* The autonomy time are calculated at 75% rated load as PF=0.9.

Note: product specifications are subject to change without further notice



# Technical Specifications

MODEL	ZP120N-6K	ZP120N-6K-KS*	ZP120N-10K-11	ZP120N -10K-11-KS*
Power Rating	6000VA/5400W		10000VA/9000W	
INPUT				
Rated Voltage	220Vac/230Vac/240Vac			
Voltage Tolerance	110Vac-276Vac			
Voltage Range - Line Low Transfer	176Vac/110Vac (± 3%) based on load percentage 100%/50%			
Voltage Range - Line High Transfer	276Vac (± 3%)			
Frequency Range	45-55Hz / 54-66Hz			
THDi %	<5% with full load			
Power Factor	≥0.99 (I/P:220V, FULL RCD LOAD)			
OUTPUT				
Rated Voltage	200VAC**/208VAC**/220VAC/230VAC/240VAC			
Voltage Regulation	± 1 %			
Rated Frequency AC Mode	50/60 Hz ± 0,2 %			
Crest Ratio	3:1			
Harmonic Distortion	< 2% THD, linear load			
Output Waveform	Pure Sinewave			
Overload Capability	100%-110%: 5 min ; 110%-130%: 1 min ; 130%-150%: 10 sec ; >150%: 2 sec			
Parallel	Up to 4			
Power Factor	0.9			
BATTERIES				
Type	Sealed lead acid battery, maintenance free			
Rating	12V/7Ah	According to capacity of external batteries	12V/9Ah	According to capacity of external batteries
Number of batteries	20		20	
Back-up Time (typical load)***	> 10 minutes		>10 minutes	
DC Voltage	240Vdc			
Charging Time	< 5 hours			
GENERAL CHARACTERISTICS				
Transfer Time (Inverter to bypass)	0 ms			
Efficiency (online mode)	>92%			
Dimensions WxDxH (mm)	260x550x708			
Net Weight (kg)	86	34	92	37
Operating Temperature	0°C ~ 45 °C			
Noise Level (at 1m)	<50dB		<55dB	
Humidity tolerance	0-95% (no condensing)			
Interface standard via Smart USB	WinPower Software supports: Windows 95/98/NT/2000/XP/ME, Linux, Sun Solaris, IBM Aix, FreeBSD, HP-UX, and MAC			
Interface for Intelligent Slot	SNMP / RS485 / AS400 Card/ ModBus			
Compliance	• European Directives: L V 2006/95/CE Low voltage directive; EMC 2004/108/EC Electromagnetic compatibility directive • Standards: Safety IEC EN 62040-1; EMC IEC EN 62040-2 C3 • Classification according to IEC 62040-3 (Voltage Frequency Independent) VFI - SS - 111			

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# Technical Specifications

MODEL		ZP120N-10K-31C	ZP120N-10K-31C-KS*	ZP120N-10K-31	ZP120N-10K-31-KS*	ZP120N-20K-31	ZP120N-20K-31-KS*
Power Rating		10000VA/9000W				20000VA/18000W	
INPUT							
Rated Voltage		220VAC/230VAC/240VAC 1ph or 380/400/415 3ph (autosensing)				220VAC/230VAC/240VAC 1ph or 380/400/415 3ph (autosensing)	
1 phase	Voltage Tolerance	110Vac-176Vac(*) -276Vac (±1%) Phase				110Vac-276Vac	
	Voltage Range - Line Low Transfer					176Vac/110Vac (± 3%) based on load percentage 100%/50%	
	Voltage Range - Line High Transfer					276Vac (± 3%)	
3 phase	Voltage Tolerance	190Vac-304Vac(**) -478Vac (±1%) 3 Phase				190Vac-478Vac	
	Voltage Range - Line Low Transfer					305Vac/190Vac (± 3%) based on load percentage 100%/50%	
	Voltage Range - Line High Transfer					478Vac (± 3%)	
Frequency Range		45-55Hz / 54-66Hz					
THDi %		<5% with full load					
Power Factor		≥0.99 (FULL LOAD)					
OUTPUT							
Rated Voltage		200VAC**/208VAC**/220VAC/230VAC/240VAC					
Voltage Regulation		± 1 %					
Rated Frequency AC Mode		50/60 Hz ± 0,2 %					
Crest Ratio		3:1					
Harmonic Distortion		< 2% THD, linear load					
Output Waveform		Pure Sinewave					
Overload Capability		100%-110%: 5 min; 110%-130%: 1 min ; 130%-150%: 10 sec; >150%: 2 sec					
Power Factor		0.9					
Parallel		Up to 4					
BATTERIES							
Type		Sealed lead acid battery, maintenance free					
Rating		12V/9Ah	According to capacity of external batteries	12V/7Ah	According to capacity of external batteries	12V/7Ah	According to capacity of external batteries
Numbers of batteries		20		24+24 optional		24+24 optional	
Back-up Time (typical load)***		> 10 minutes		> 6 minutes + 6 minutes optional		> 6 minutes + 6 minutes optional	
DC Voltage		240Vdc		288Vdc		288Vdc	
Charging Time		< 5 hours					
GENERAL CHARACTERISTICS							
Transfer Time (Inverter to bypass)		0 ms					
Efficiency (online mode)		>92%		>93%		>92%	
Dimensions WxDxH (mm)		260x550x708		350x650x890			
Net Weight (kg)		93	38	175		160	53
Operating Temperature		0°C ~ 45 °C					
Noise Level (at 1m)		<55dB		<55dB	<55dB	<55dB	
Humidity Tolerance		0-95% (no condensing)					
Interface standard via Smart USB		WinPower Software supports: Windows 95/98/NT/2000/XP/ME, Linux, Sun Solaris, IBM Aix, FreeBSD, HP-UX, and MAC					
Interface for Intelligent Slot		SNMP / RS485 / AS400 Card/ ModBus					
Compliance		• European Directives: L V 2006/95/CE Low voltage directive; EMC 2004/108/EC Electromagnetic compatibility directive • Standards: Safety IEC EN 62040-1; EMC IEC EN 62040-2 C3 • Classification according to IEC 62040-3 (Voltage Frequency Independent) VFI - SS - 111					

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