

MODEL	ZY120-1K	ZY120-1K-KS*	ZY120-2K	ZY120-2K-KS*	ZY120-3K	ZY120-3K-KS*
Power	1000 VA / 900 W		2000 VA / 1800 W		3000 VA / 2700 W	
MAIN INPUT						
Grid system			1 Phase + Neutral + Ground			
Rated voltage / Frequency			200/208/220/230/240 VAC, 40~70 Hz			
Voltage range			110~288 VAC, 100% load until 176V / linear derating until 50% with 110V			
Rating (nominal input voltage, batteries charged)	4.8 A		9.6 A		14.4 A	
Frequency range			40~70 Hz			
Power factor			≥ 0.97			
Current THDI			Compliant to EN 61000-2-3			
OUTPUT						
Rated voltage / Frequency			200/208/220/230/240 VAC, 50/60 Hz			
Power Factor			0,9			
Wave form			Pure sine wave			
Voltage THDv	≤ 2% THD (linear load); ≤ 5.5% THD (non-linear load)		≤ 2% THD (linear load); ≤ 5% THD (non-linear load)			
Voltage precision			±1%			
Transient recovery			Complies with EN 62040-3 VFI-111			
Inverter overload			105%~130%: Transfer to bypass after 1 mins. 150%: Transfer to bypass after 30s			
Bypass overload			load < 130%, long term operation 130% < load < 150%, 10 minutes 150% < load < 180%, 5 seconds			
Frequency regulation			+/- 0,1 Hz in battery mode			
Synchronized range			+/-5Hz default			
Synchronized slew rate			Settable			
Crest factor			3:1			
BATTERIES						
Battery type			Pb			
Battery capacity	12 VDC / 7 Ah	Selectable	12 VDC / 7 Ah	Selectable	12 VDC / 7 Ah	Selectable
Number of batteries in series	3		6		8	
Battery rate voltage	36 VDC		72 VDC		96 VDC	
Backup time	80% load: up to 6 minutes	Depending on external batteries capacity	80% load: up to 6 minutes	Depending on external batteries capacity	80% load: up to 5.5 minutes	Depending on external batteries capacity
BATTERY CHARGER						
Charging voltage	float: 41 VDC / boost: 42 VDC		float: 82 VDC / boost: 84 VDC		float: 109 VDC / boost: 112 VDC	
Charging current (Max)	1 A	8 A	1 A	8 A	1 A	8 A
Charging time	8 h to recover 90% capacity	Depending on external batteries capacity	8 h to recover 90% capacity	Depending on external batteries capacity	8 h to recover 90% capacity	Depending on external batteries capacity
SYSTEM						
Efficiency	90,0 %		90,0 %		91,0%	
Display			LED + LCD			
Protection degree			IP20			
Interface			Standard equipment: USB port, RS232, Cold Start, EPO Optional: Dry contacts, SNMP			
ENVIRONMENT						
Operating temperature			0 ~ 40°C			
Storage temperature			-20 ~ 70°C			
Relative humidity			0 ~ 95% (no condensing)			
Noise (dBA at 1 meter far)	< 43 dB @ < 90% load, < 47dB @ > 90% load		< 45 dB @ < 60% load, < 50 dB @ > 60% load			
Altitude			< 1000m; load derated 1% per 100m, from 1000 ~ 2000m			
MECHANICAL DATA						
Dimensions W*D*H (mm)	144*364*228		190*387*336		190*439*336	
Weight (Kg)	12	6	21	10,5	25,6	11,5
Color			Black			

Note: technical specifications and data could be changed without notification

* KS denotes the UPS version with increased battery charger and no internal batteries. These versions are available upon specific request