

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 deraiting 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