

# On Line High Frequency UPS KH 11 One-1-3K



## Technical Features:

- True double-conversion
- Microprocessor control optimizes reliability
- Output power factor 1
- Input power factor correction
- Wide input voltage (110 V – 300 V)
- 50/60Hz Frequency Converter Mode
- ECO mode for energy saving
- Emergency power off (EPO) function
- Provides over voltage cutt-off protection and surge immunity by MOV for full time equipment protection
- High power factor charger upto 1000W capacity with very low ripple current when charging battery
- Low input THDi to reduce power system pollution
- Adjustable charging current via LCD panel
- Smart battery charger design to optimize battery performance
- Generator compatible



## Technical Specifications:

MODEL		KH 11 One -1K		KH 11 One -1.5K		KH 11 One -2K		KH 11 One -3K	
PHASE		Single phase with ground							
CAPACITY		1000VA /1000W		1500VA /1500W		2000VA /2000W		3000VA /3000W	
INPUT									
Nominal Voltage		100/110/115/120 /127 VAC or 200/208/220/230/240 VAC							
Voltage Range		55 - 150 VAC ± 3 % or 110 - 300 VAC ± 3 % at 50% load , 80 - 150 VAC ± 3 % or 160 - 300 VAC ± 3 % at 100% load							
Frequency Range		40Hz ~ 70Hz							
Power Factor		≧ 0.99 @ nominal voltage (100% load)							
THDi		≦ 5%							
OUTPUT									
Output Voltage		100*/110*/115*/120 /127 VAC or 200*/208*/220/230/240 VAC							
Voltage Regulation (Batt. Mode)		± 1%							
Frequency Range (Synchronized Range)		47 ~ 53 Hz or 57~63Hz							
Frequency Range (Batt. Mode)		50 Hz ± 0.1 Hz or 60Hz ± 0.1 Hz							
Current Crest Ratio		3:1							
Harmonic Distortion		≦ 2 % THD (Linear Load) ; ≦ 4 % THD (Non-linear Load)							
Transfer Time	AC to DC	Zero							
	Inverter to Bypass	4 ms (Typical)							
	ECO to Battery mode	8 ms (Typical), 10 ms(max)							
Waveform (Batt. Mode)		Pure Sinewave							
EFFICIENCY									
AC Mode		≧ 89% @ full charged battery				≧ 91% @ full charged battery			
ECO Mode		≧ 96% @ full charged battery							
Battery Mode		≧ 88%				≧ 90%			
BATTERY									
Battery Type		12V 9AH	12 V / 7 AH	12 V / 9 AH		12 V / 9 AH	12 V / 7 AH	12 V / 9 AH	12 V / 7 AH
Numbers		2	3	3		4	6	6	8
Typical Recharge Time		3 hours recover to 95% capacity for internal battery@ 2A charging current							
Charging Current		100/110/115/120 /127 VAC models: default 2A, max. 8A adjustable 200/208/220/230/240 VAC models: default 2A, max. 12A adjustable					Default: 2A, Max: 8A adjustable		
Charging Voltage		27.4VDC ± 1%	41.1VDC ± 1%	41.1VDC ± 1%		54.8VDC ± 1%	82.1VDC ± 1%	82.1VDC ± 1%	109.6VDC ± 1%
PHYSICAL									
Dimension, D X W X H (mm)		397 x 145 x 220				421 x 190 x 318			
Net Weight (without battery) (kgs)		6.6	6.6	7		9.9	9.9	12.3	12.3
Net Weight (w/built-int battery) (kgs)		11.7	13	14.6		20.3	23.2	28	33
ENVIRONMENT									
Humidity		20-95 % RH @ 0- 40°C [non-condensing]							
Noise Level		Less than 50dBA @ 1 Meter				Less than 55dBA @ 1 Meter			
Altitude		10% de-rating for over 1000m [The altitude should not exceed 3000m]							
MANAGEMENT									
Smart RS-232 or USB		Supports Windows 2000/2003/XP/Vista/2008/7/8, Linux, Unix and MAC							
Optional SNMP		Power management from SNMP manager and web browser							
STANDARD									
EMC/Safety		EMC EN62040-2 C2 for CE models							

\*Derate capacity to 80% when the output voltage is adjusted to 100VAC/200VAC/208VAC.

Product specifications are subject to change without further notice



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