# On Line High Frequency UPS

# KHD 33 10-40K(L)

## Technical Features:

- True double-conversion
- DSP technology guarantees high performance
- Output power factor 1.0
- Active power factor correction in all phases
- 50Hz/60Hz frequency converter mode
- ECO mode operation for energy saving (ECO)
- Emergency power off function (EPO)
- Generator compatible
- SNMP+USB+RS-232 multiple communications
- 3-stage extendable charging design for optimized battery performance
- Adjustable battery numbers for long-run model
- Maintenance bypass available
- Parallel operation with commom battery
- Optional parallel operation
- Optional isolation transformer offers full isolation and complete common mode noise rejection

## Technical Specifications:

| MODEL | | KHD33-10K(L) | KHD33-15K(L)* | KHD33-20K(L) | KHD33-30KL | KHD33-40KL |
|---|---|---|---|---|---|---|
| PHASE | | 3-phase in/3-phase out | | | | |
| CAPACITY | | 10KVA /10KW | 15KVA / 15KW | 20KVA / 20KW | 30KVA / 30KW | 40KVA / 40KW |
| INPUT | | | | | | |
| Nominal Voltage | | 3 x 208/220 VAC (3Ph+N) | | | | |
| Voltage Range | | 121~270 VAC (3-phase) @ 50% load , 152~270 VAC (3-phase) @ 100% load | | | | |
| Frequency Range | | 46~54 Hz or 56~64Hz | | | | |
| Power Factor | | ≧ 0.99 @ 100% load | | | | |
| OUTPUT | | | | | | |
| Output Voltage | | 3 x 208/220 VAC (3Ph+N) | | | | |
| AC Voltage Regulation (Batt. Mode) | | ± 1% | | | | |
| Frequency Range (Synchronized Range) | | 46~54Hz or 56~64Hz | | | | |
| Frequency Range (Batt. Mode) | | 50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz | | | | |
| Current Crest Ratio | | 3:1 (max.) | | | | |
| Harmonic Distortion | | ≦ 2 % THD (Linear Load) , ≦ 4 % THD (Non-linear Load PF≥0.8) | | | | |
| Transfer Time | AC mode to Battery mode | zero | | | | |
| | Inverter to Bypass | zero | | | | |
| Waveform (Batt. Mode) | | Pure Sine Wave | | | | |
| Overload | AC Mode | 100-110% for 10 min, 110-130% for 1 min, >130% for 1 second | | | | |
| | Battery Mode | 100-110% for 30 seconds, 110-130% for 10 seconds, >130% for 1 second | | | | |
| PARALLEL CAPACITY | | up to 3 units in parallel | | | | |
| EFFICIENCY | | | | | | |
| AC Mode | | 94% | | | | |
| ECO Mode | | 97% | | | | |
| Battery Mode | | 93.5% | | | | |
| BATTERY | | | | | | |
| Standard Model | Battery Type | 12V/9Ah | 12V/9Ah | 12V/9Ah | N/A | |
| | Numbers | 8+8 | (8+8)pcs x 2 strings | (8+8)pcs x 2 strings | | |
| | Typical Recharge Time | 9 hours recover to 90% capacity | | | | |
| | Charging Current (max.) | 1A/2A/3A/4A (Adjustable) | | | | |
| | Charging Voltage | +/-109 VDC | +/-109 VDC | +/-109 VDC | | |
| Long-run Model | Battery Type | Depending on the capacity of external batteries | | | | |
| | Numbers | 16~20 pcs (Adjustable) | | | | |
| | Charging Current (max.) | 12A | | | 24A | |
| | Charging Voltage | +/-13.65V*N (N = 8~10) | | | | |
| INDICATORS | | | | | | |
| Touch color LCD Panel | | UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions | | | | |
| ALARM | | | | | | |
| Battery Mode | | Sounding every 4 seconds | | | | |
| Low Battery | | Sounding every second | | | | |
| Overload | | Sounding twice every second | | | | |
| Fault | | Continuously sounding | | | | |
| PHYSICAL | | | | | | |
| Standard Model | Dimension, D X W X H (mm) | 627 X 250 X 826 | 815 x 300 x 1000 | | N/A | |
| | Net Weight (kgs) | 100 | 152 | 117 | | |
| Long-run Model | Dimension, D X W X H (mm) | 627 X 250 X 826 | 815 x 300 x 1000 | | 790 x 360 x 1010 | |
| | Net Weight (kgs) | 50 | 60 | 61 | 108 | 113 |
| ENVIRONMENT | | | | | | |
| Operation Temperture | | 0-40°C | | | | |
| Operation Humidity | | <95% and non-condensing | | | | |
| Noise Level | | Less than 60dB @ 1 Meter | | Less than 70dB @ 1 Meter | | Less than 75dB @ 1 Meter |
| MANAGEMENT | | | | | | |
| Smart RS-232/USB | | Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8, Linux and MAC | | | | |
| Optional SNMP | | Power management from SNMP manager and web browser | | | | |

*When output voltage is set as 3 x 360VAC or 3 x 380VAC, the output power of the unit will be de-rated to 90%.
**If the UPS is installed or used in a place where the altitude is higher than maximum height, the output power will be derated 1% per 100m.
Product specifications are subject to change without further notice.

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