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| **SPECIAL FEATURES:** |
| * True on-line dual conversion design |
| * Generator Compatible |
| * All Protections over/low-voltage, overcurrent, overload |
| * Intelligent Battery Management, extended battery life |
| * Intelligent Self diagnose function, all kinds of fault protection |
| * Modularized design of subsystems |
| * Bypass back feed protection, battery leakage protection |
| * Parallel Redundancy design, increase the system reliability |
| * Customizable wide input voltage range |
| * Large size input LCD display on front panel |

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| **Apollo Online UPS (3:3 Phase)** | | |
| **Model** | | **3P20K** |
| Capacity (VA/Watts) | | 20K/16K |
| **INPUT** | |  |
| Nominal voltage | | 380/400/415Vac, (3Ph+N+PE) |
| Operating voltage range | | 208~478Vac |
| Operating frequency range | | 40 ~ 70Hz |
| Power factor | | ≥0.99 |
| Harmonic distortion (THD) | | 2%(100% nonlinear load) |
| Bypass voltage range | | Max. Voltage: 220V +25% (optional +10%, +15%, +20%) 230V 20% (optional +10%, +15%)  240V 15% (optional +10%), Min voltage: -45% (optional -20%, -30%), Frequency protection rage: ±10% |
| Generator input | | Support |
| **OUTPUT** | |  |
| Output voltage | | 380/400/415Vac, (3Ph+N+PE) |
| Voltage regulation | | ±1% |
| Power factor | | 0.8/0.9 (Customized) |
| Output frequency | | 1.Line Mode: ±1%/±2%/±4%/±5%/±10% of the rated frequency (optional)  2.Battery Mode: (50/60±0.2%)Hz |
| Crest factor | | 3:1 |
| Harmonic distortion (THDv) | | ≤2% with linear load  ≤5% with non linear load |
| Efficiency | | 94.5% |
| **BATTERY** | |  |
| Battery voltage | | Standard unit: ±216Vdc; Long run unit Optional voltage: ±192V\±204V\±216V\±228V\±240Vdc |
| Battery type | | 12V/38Ah (standard unit) |
| Charge Current (A)  (charge current can be set according to battery capacity installed) | | 12A (Max.) |
| **SYSTEM FEATURES** | |  |
| Transfer time | | Utility to Batter : 0ms; Utility to bypass: 0ms |
| Overload | Line Mode | Load ≤110%: last 60min, ≤125%: last 1min, ≥150% turn to bypass mode immediately |
| Bat. Mode | Load ≤110%: last 10min, ≤125%: last 1min, ≤150%: last 5S, ≥150% shut down UPS immediately |
| Short circuit | | Hold Whole System |
| Overheat | | Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately |
| Low battery voltage | | Alarm and Switch off |
| Self-diagnostics | | Upon Power On and Software Control |
| EPO (optional) | | Shut down UPS immediately |
| Battery | | Advanced Battery Management |
| Nose Suppression | | Complies with EN62040-2 |
| Audible & Visual | | Line Failure, Battery Low, Overload System Fault |
| Status LED & LCD display | | Line Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault |
| Reading on the LCD display | | Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage & Inner Temperature |
| Communication interface | | RS232, RS485, Parallel, Intelligent slot, Relay card (optional), SNMP card (optional) |
| **ENCIRONMENTAL** | |  |
| Operating temperature | | 0~40°C |
| Storage temperature | | -25 ~ 55°C |
| Humidity range | | 0 ~ 95% (non ─ condensing) |
| Altitude | | <1500m |
| Noise level | | <55dB |
| **PHYSICAL** | |  |
| Dimension W x D x H (mm) | | 780 x 600 x 1200 |
| Net weight (KG) | | S:602  H:133 |
| **STANDARDS** | |  |
| Safety | | IEC/EN62040-1; IEC/EN60950-1 |
| EMC | | IEC/EN602040-2; IEC61000-4-2: IEC61000-4-3; IEC61000-4-4;  IEC61000-4-5; IEC61000-4-6; IEC 61000-4-8 |