

# BLACK KNIGHT BLACK KNIGHT PRO

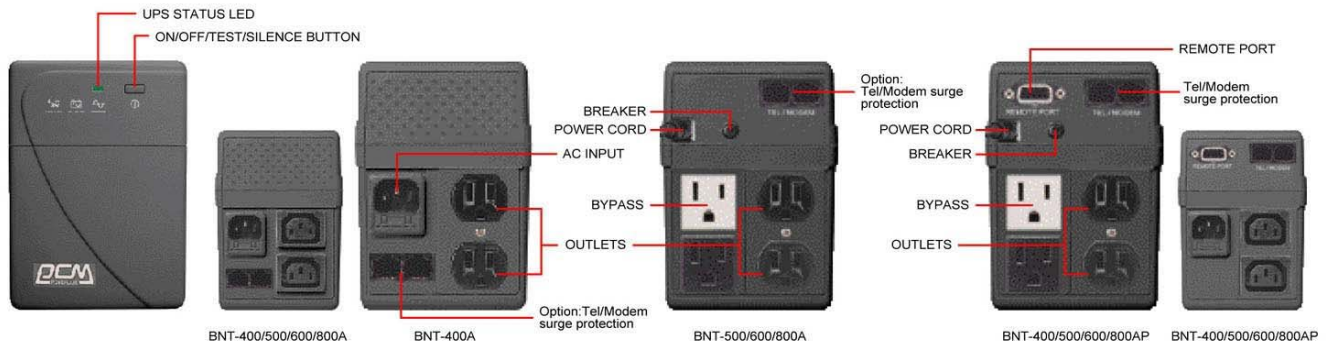
*Quality Protection for Small Servers, and Workstations & PCs*

- Line interactive design
  - Boost and buck AVR (Auto voltage regulation)
  - Fully digitized microprocessor controlled
  - Energy saving function (UPS green mode)
  - 50/60Hz frequency auto sensing and selection
  - Cold start function (DC power on)
  - Lightning and surge protection
  - Short circuit and overload protection
  - Advanced battery management (ABM technology)
  - Smart RS-232 communication port \*
  - Tel/Modem internet surge suppression \*
  - Automatically charging when UPS off \*
  - History record of power failure events \*
  - Back up, on-line, battery status, power status display by software \*
  - Schedule shutdown & reboot \*
- \* Feature on BNT-xxxAP models only



Complete Power Solution™

ISO 9001 Certified Company



**SPECIFICATION**

| MODEL                    | BNT-400A                             | BNT-400AP  | BNT-500A                           | BNT-500AP   | BNT-600A     | BNT-600AP                            | BNT-800A    | BNT-800AP    | BNT-1000AN  | BNT-1000APN  |             |  |
|--------------------------|--------------------------------------|--|------------------------------------|---|--------------|--------------------------------------|-------------|--------------|-------------|--------------|-------------|--|
| CAPACITY                 | 400VA                                |  | 500VA                              |   | 600VA        |                                      | 800VA       |              | 1000VA      |              |             |  |
| INPUT                    | Voltage                              | 100V, 110V, 115V, 120V, 220V, 230V, 240V +/- 25% at line input   |                                    |   |              |                                      |             |              |             |              |             |  |
|                          | Frequency                            | 50 or 60 Hz +/- 10% (auto sensing)   |                                    |   |              |                                      |             |              |             |              |             |  |
| OUTPUT                   | Voltage (on battery)                 | Simulated sine wave at 100V, 110V, 115V, 120V, 220V, 230V, 240V +/- 5%   |                                    |   |              |                                      |             |              |             |              |             |  |
|                          | Frequency (on battery)               | 50 or 60 Hz +/- 1Hz  |                                    |   |              |                                      |             |              |             |              |             |  |
|                          | Voltage Regulation (AVR)             | AVR automatically increase output voltage 15% above input voltage if -9% to -25% of nominal.<br>AVR decrease output voltage 13% below input voltage if +9% to +25% of nominal                                    |                                    |   |              |                                      |             |              |             |              |             |  |
|                          | Transfer Time                        | 2/4 milliseconds, including detection time   |                                    |   |              |                                      |             |              |             |              |             |  |
|                          | PROTECTION and FILTERING             | Spike Protection   | 480 Joules                         |   |              |                                      |             |              |             |              |             |  |
| PROTECTION and FILTERING | Unit Input                           | Breaker/Fuse or overload & short protection  |                                    |   |              |                                      |             |              |             |              |             |  |
|                          | Overload Protection                  | UPS automatic power off if overload exceeds 110% of nominal at 60 seconds and 130% at 3 seconds  |                                    |   |              |                                      |             |              |             |              |             |  |
|                          | 10 Base-T Cable Port                 | OPTIONAL   | YES                                | OPTIONAL  | YES          | OPTIONAL                             | YES         | OPTIONAL     | YES         | OPTIONAL     | YES         |  |
|                          | Short Circuit                        | UPS output cut off immediately or input Breaker/Fuse protection  |                                    |   |              |                                      |             |              |             |              |             |  |
| BATTERY                  | Type                                 | Sealed, maintenance-free lead acid   |                                    |   |              |                                      |             |              |             |              |             |  |
|                          | Typical Recharge Time                | 6 hours (to 90% of full capacity)  |                                    |   |              |                                      |             |              |             |              |             |  |
|                          | Protection                           | Automatic discharge protection   |                                    |   |              |                                      |             |              |             |              |             |  |
|                          | Back-up Time (a PC with 15" monitor) | ≈15 minutes  | ≈20 minutes                        | ≈20 minutes   | ≈22 minutes  | ≈24 minutes                          | ≈27 minutes |              |             |              |             |  |
| PHYSICAL                 | Net Weight Kg (lbs)                  | 4.2 (9.2)  | 5.65 (12.43)                       | 5.8 (12.8)  | 6.44 (14.17) | 6.0 (13.2)                           | 6.5 (14.3)  | 6.45 (14.19) | 6.6 (14.52) | 6.55 (14.42) | 6.7 (14.74) |  |
|                          | Shipping Weight Kg (lbs)             | 4.6 (10.1)   | 5.95 (13.09)                       | 6.3 (13.9)  | 6.94 (15.27) | 6.5 (14.3)                           | 7.0 (15.4)  | 6.95 (15.29) | 7.1 (15.62) | 7.05 (15.51) | 7.2 (15.84) |  |
|                          | Dimension W x D x H mm               | 97 x 260 x 135 (3.8"x10.2"x5.3")   |                                    |   |              | 97 x 320 x 135 (3.8" x 12.5" x 5.3") |             |              |             |              |             |  |
|                          | Input Inlet                          | IEC 320 power inlet  |                                    | NEMA 5-15P FOR 1X0V<br>IEC 320 power inlet FOR 2X0V |              |                                      |             |              |             |              |             |  |
|                          | Receptacles                          | NEMA 5-15R FOR 1X0V (UPSx2 IN BNT-400A, UPSx3 + BYPASSx1 IN BNT-500A-1000AN & BNT-400AP-1000APN)<br>IEC 320 female appliance coupler FOR 2X0V (UPSx2 IN BNT-400A/AP-800A/AP, UPSx3 + BYPASSx1 IN BNT-1000AN/APN) |                                    |   |              |                                      |             |              |             |              |             |  |
|                          | ALARM                                | Battery Back-up  | Slow beeping sound (about 0.47 Hz) |   |              |                                      |             |              |             |              |             |  |
| Battery Low              |                                      | Rapid beeping sound (about 1.824 Hz)   |                                    |   |              |                                      |             |              |             |              |             |  |
| Overload                 |                                      | Continuously beeping sound   |                                    |   |              |                                      |             |              |             |              |             |  |
| INTERFACE                | RS-232 Interface                     | NO   | YES                                | NO  | YES          | NO                                   | YES         | NO           | YES         | NO           | YES         |  |
| ENVIRONMENT              | Ambient Operation                    | 3,500 meters max. elevation. 0-95% humidity non-condensing, 0-40 deg C   |                                    |   |              |                                      |             |              |             |              |             |  |
|                          | Audible Noise                        | <40dBA (1 meter from surface)  |                                    |   |              |                                      |             |              |             |              |             |  |
|                          | Storage Condition                    | 15,000 meter max. elevation  |                                    |   |              |                                      |             |              |             |              |             |  |

**Available Through:**

OUTPUT RECEPTACLE OPTION

**VERSION 002**