



Server



Telecom



Industrial



Network



Hospitality



Medical

## AMB ON Plus 6 kVA, 10 kVA UPS Series G2



## Tower Online UPS | Rack-Mount Online UPS

**High Reliability**

- Full-Digital Control Technology: Advanced DSP control technology enables precise and rapid data processing, featuring fast self-diagnosis and fault-handling capabilities, with comprehensive self-protection functions ensuring higher reliability.
- Higher circuit integration and optimized design enhance anti-interference capabilities, making performance more stable.
- Environmentally Green and Safe: all components comply with international environmental ROHS standards, making them eco-friendly and non-harmful.
- Reliable electromagnetic compatibility, certified by authoritative institutions.

**Strong Application Adaptability**

- Ultra-wide voltage input range allows adaptation to different operating voltage conditions, easily handling harsh power environments and avoiding frequent switching to battery power.
- Supports connection to generators, adapting to generator AC input while effectively isolating harmful power fluctuations, preventing grid pollution, and providing a clean, safe, and stable power supply for loads.
- Outputs 208/220/230/240Vac with strong compatibility and greater flexibility to meet power requirements in multiple countries.
- 50/60Hz frequency adaptive, automatically detects grid frequency.
- Utility power priority to avoid frequent battery switching, extending battery lifespan.
- Comprehensive Alarm Protection: self-diagnostics and hidden fault detection, ensuring system safety.

**Outstanding Energy Efficiency**

- Green Power Bidirectional Protection: input power factor  $>0.99$ , input current harmonics  $<4\%$ , improving energy efficiency, effectively preventing additional energy loss, eliminating grid pollution, and reducing energy costs.
- Industry-leading overall efficiency, with full-load efficiency reaching up to 95%, saving energy consumption and reducing customer operating costs.
- Comparison of a 10kW device running 24 hours non-stop vs. the industry average efficiency of 92%: daily energy savings  $10,000W \times (95\% - 92\%) \times 24h = 7.2 \text{ kWh}$ ; daily cost savings  $0.8 \times 7.2 = 5.76 \text{ CNY}$ ; annual energy savings  $7.2 \times 365 = 2,628 \text{ kWh}$ ; annual cost savings  $0.8 \times 2,628 = 2,102 \text{ CNY}$ .
- Output power factor of up to 1.0, providing stronger load capacity at the same power level, resulting in better cost-performance and lower system investment costs.
- High power density with an optimized structural design; rack-mounted height as low as 2U, depth of 509mm, making it more compact and reducing space costs.
- Self-aging mode for testing, verification, and maintenance without additional load, saving a significant amount of energy and testing costs.

**Intelligent and User-Friendly**

- Intelligent fan speed control extends fan lifespan and improves energy efficiency.
- LCD/LED dual-display with an optional color screen, providing comprehensive parameter settings for easier management.
- Standard communication features: RS232/EPO, supporting optional SNMP, dry contacts, and RS485 cards.
- Smart charging function allows setting of charging current, with long-runtime models supporting up to 8A, reducing charging time. 16-20 battery configuration for flexibility, with hot-swappable external batteries, ensuring uninterrupted power supply.

## AMB ON Plus 6 kVA, 10 kVA UPS Series G2

### > SPECIFICATION

| MODEL                                 | AMB-ON-Plus-6K(L)                                                                                         | AMB-ON-Plus-10K(L)                                                                                        |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Phase                                 | 1 phase in / 1 phase out                                                                                  | 1 phase in / 1 phase out                                                                                  |
| Capacity                              | 6000 VA / 6000 W                                                                                          | 10000 VA / 10000 W                                                                                        |
| <b>INPUT</b>                          |                                                                                                           |                                                                                                           |
| Nominal Voltage                       | 208/220/230/240 VAC                                                                                       | 208/220/230/240 VAC                                                                                       |
| Voltage Range                         | 110~300VAC $\pm 3\%$ @ 60% load;<br>176~300VAC $\pm 3\%$ @ 100% load                                      | 110~300VAC $\pm 3\%$ @ 60% load;<br>176~300VAC $\pm 3\%$ @ 100% load                                      |
| Frequency Range                       | 46~54 Hz or 56~64 Hz; 40~70 Hz<br>(generator mode)                                                        | 46~54 Hz or 56~64 Hz; 40~70 Hz<br>(generator mode)                                                        |
| Power Factor                          | $\geq 0.99$ @ full load                                                                                   | $\geq 0.99$ @ full load                                                                                   |
| THDi                                  | $< 4\%$ @ 100% R load                                                                                     | $< 4\%$ @ 100% R load                                                                                     |
| <b>OUTPUT</b>                         |                                                                                                           |                                                                                                           |
| Output Voltage                        | 208*/220/230/240 VAC                                                                                      | 208*/220/230/240 VAC                                                                                      |
| AC Voltage Regulation (Batt. Mode)    | $\pm 1\%$                                                                                                 | $\pm 1\%$                                                                                                 |
| Frequency Range (Synchronized Range)  | 46~54 Hz or 56~64 Hz                                                                                      | 46~54 Hz or 56~64 Hz                                                                                      |
| Frequency Range (Batt. Mode)          | 50 Hz $\pm 0.1$ Hz or 60 Hz $\pm 0.1$ Hz                                                                  | 50 Hz $\pm 0.1$ Hz or 60 Hz $\pm 0.1$ Hz                                                                  |
| Current Crest Ratio                   | 3:1 (max.)                                                                                                | 3:1 (max.)                                                                                                |
| Harmonic Distortion                   | $\leq 1\%$ THD (Linear Load); $\leq 4\%$ THD (Non-linear Load)                                            | $\leq 1\%$ THD (Linear Load); $\leq 4\%$ THD (Non-linear Load)                                            |
| Transfer Time – AC Mode to Batt. Mode | Zero                                                                                                      | Zero                                                                                                      |
| Transfer Time – Inverter to Bypass    | Zero                                                                                                      | Zero                                                                                                      |
| Waveform (Batt. Mode)                 | Pure Sinewave                                                                                             | Pure Sinewave                                                                                             |
| Overload – AC Mode                    | 100~110% for 60 min, 110~125% for 10 min,<br>125%~150% 1 min, >150% immediate switch to<br>bypass         | 100~110% for 60 min, 110~125% for 10 min,<br>125%~150% 1 min, >150% immediate switch to<br>bypass         |
| Overload – Battery Mode               | 100%~110%: 3 min, 110%~130%: 30 s,<br>>130%: immediately                                                  | 100%~110%: 3 min, 110%~130%: 30 s,<br>>130%: immediately                                                  |
| <b>EFFICIENCY</b>                     |                                                                                                           |                                                                                                           |
| AC Mode                               | 95%                                                                                                       | 95%                                                                                                       |
| Battery Mode                          | 92%                                                                                                       | 92%                                                                                                       |
| <b>BATTERY – STANDARD MODEL</b>       |                                                                                                           |                                                                                                           |
| Battery Type                          | 12 V / 7 Ah                                                                                               | 12 V / 9 Ah                                                                                               |
| Numbers                               | 16                                                                                                        | 20                                                                                                        |
| Typical Recharge Time                 | 7 hours recover to 90% capacity                                                                           | 9 hours recover to 90% capacity                                                                           |
| Charging Current (max.)               | 1 A $\pm 10\%$ (Default)                                                                                  | 1 A $\pm 10\%$ (Default)                                                                                  |
| Charging Voltage                      | 218.4 VDC $\pm 1\%$                                                                                       | 240 VDC $\pm 1\%$                                                                                         |
| <b>BATTERY – LONG-RUN MODEL</b>       |                                                                                                           |                                                                                                           |
| Battery Type                          | Sealed, lead-acid battery                                                                                 | Sealed, lead-acid battery                                                                                 |
| Numbers                               | 16-20**                                                                                                   | 16-20**                                                                                                   |
| Charging Current (max.)               | 2A $\pm 10\%$ (Default) 1/2/4/6/8A adjustable                                                             | 2A $\pm 10\%$ (Default) 1/2/4/6/8A adjustable                                                             |
| Charging Voltage                      | (13.65VDC $\times$ battery number) $\pm 1\%$                                                              | (13.65VDC $\times$ battery number) $\pm 1\%$                                                              |
| <b>INDICATORS</b>                     |                                                                                                           |                                                                                                           |
| LCD Display                           | UPS status, load level, battery level, input/<br>output voltage, discharge timer, and fault<br>conditions | UPS status, load level, battery level, input/<br>output voltage, discharge timer, and fault<br>conditions |
| <b>PHYSICAL – STANDARD MODEL</b>      |                                                                                                           |                                                                                                           |
| Dimension, D x W x H (mm)             | 369 x 190 x 688                                                                                           | 442 x 190 x 688                                                                                           |
| Net Weight (kg)                       | 55                                                                                                        | 74                                                                                                        |

## AMB ON Plus 6 kVA, 10 kVA UPS Series G2

### ➤ SPECIFICATION

| MODEL                            | AMB-ON-Plus-6K(L)                                  | AMB-ON-Plus-10K (L)                                |
|----------------------------------|----------------------------------------------------|----------------------------------------------------|
| <b>PHYSICAL – LONG-RUN MODEL</b> |                                                    |                                                    |
| Dimension, D x W x H (mm)        | 369 x 190 x 318                                    | 369 x 190 x 318                                    |
| Net Weight (kg)                  | 14                                                 | 15                                                 |
| <b>ENVIRONMENT</b>               |                                                    |                                                    |
| Operating Humidity               | < 95% RH @ 0-40°C (Non-condensing)                 | < 95% RH @ 0-40°C (Non-condensing)                 |
| Noise Level                      | Less than 55dB @ 1 Meter                           | Less than 58dB @ 1 Meter                           |
| <b>MANAGEMENT</b>                |                                                    |                                                    |
| Smart RS-232/USB                 | Supports Windows® Family, Linux and MAC            | Supports Windows® Family, Linux and MAC            |
| Optional SNMP                    | Power management from SNMP manager and web browser | Power management from SNMP manager and web browser |

\*Derate capacity to 60% of capacity in CVCF mode and to 90% when the output voltage is adjusted to 208VAC or parallel system is operated.

\*\*When using 16 pieces of batteries, the output power factor will be derated to 0.8. If using 18 or 19 pieces of batteries, the output power factor will be derated to 0.9 \*\*\*If the UPS is installed or used in a place where the altitude is above than 1000m, the output power must be derated one percent per 100m..

Product specifications are subject to change without further notice.

## AMB ON Plus 6kVA, 10kVA RT UPS Series G2

### > SPECIFICATION

| MODEL                                 | AMB-On-Plus-6K-RT(L)                                                                              | AMB-ON-Plus-10K-RT(L)                                                                             |
|---------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Phase                                 | 1 phase in / 1 phase out                                                                          | 1 phase in / 1 phase out                                                                          |
| Capacity                              | 6000 VA / 6000 W                                                                                  | 10000 VA / 10000 W                                                                                |
| <b>INPUT</b>                          |                                                                                                   |                                                                                                   |
| Nominal Voltage                       | 208/220/230/240 VAC                                                                               | 208/220/230/240 VAC                                                                               |
| Voltage Range                         | 110~300VAC $\pm 3\%$ @ 60% load;<br>176~300VAC $\pm 3\%$ @ 100% load                              | 110~300VAC $\pm 3\%$ @ 60% load;<br>176~300VAC $\pm 3\%$ @ 100% load                              |
| Frequency Range                       | 46~54 Hz or 56~64 Hz; 40~70 Hz<br>(generator mode)                                                | 46~54 Hz or 56~64 Hz; 40~70 Hz<br>(generator mode)                                                |
| Power Factor                          | $\geq 0.99$ @ full load                                                                           | $\geq 0.99$ @ full load                                                                           |
| THDi                                  | $< 4\%$ @ 100% R load                                                                             | $< 4\%$ @ 100% R load                                                                             |
| <b>OUTPUT</b>                         |                                                                                                   |                                                                                                   |
| Output Voltage                        | 208*/220/230/240 VAC                                                                              | 208*/220/230/240 VAC                                                                              |
| AC Voltage Regulation (Batt. Mode)    | $\pm 1\%$                                                                                         | $\pm 1\%$                                                                                         |
| Frequency Range (Synchronized Range)  | 46~54 Hz or 56~64 Hz                                                                              | 46~54 Hz or 56~64 Hz                                                                              |
| Frequency Range (Batt. Mode)          | 50 Hz $\pm 0.1$ Hz or 60 Hz $\pm 0.1$ Hz                                                          | 50 Hz $\pm 0.1$ Hz or 60 Hz $\pm 0.1$ Hz                                                          |
| Current Crest Ratio                   | 3:1 (max.)                                                                                        | 3:1 (max.)                                                                                        |
| Harmonic Distortion                   | $\leq 1\%$ THD (Linear Load); $\leq 4\%$ THD (Non-linear Load)                                    | $\leq 1\%$ THD (Linear Load); $\leq 4\%$ THD (Non-linear Load)                                    |
| Transfer Time – AC Mode to Batt. Mode | Zero                                                                                              | Zero                                                                                              |
| Transfer Time – Inverter to Bypass    | Zero                                                                                              | Zero                                                                                              |
| Waveform (Batt. Mode)                 | Pure Sinewave                                                                                     | Pure Sinewave                                                                                     |
| Overload – AC Mode                    | 100-110% for 60 min, 110-125% for 10 min,<br>125%~150% 1 min, >150% immediate switch to<br>bypass | 100-110% for 60 min, 110-125% for 10 min,<br>125%~150% 1 min, >150% immediate switch to<br>bypass |
| Overload – Battery Mode               | 100-110% for 3 min, 110-130% for 30 s,<br>>130% immediately                                       | 100-110% for 3 min, 110-130% for 30 s,<br>>130% immediately                                       |
| <b>EFFICIENCY</b>                     |                                                                                                   |                                                                                                   |
| AC Mode                               | 95%                                                                                               | 95%                                                                                               |
| Battery Mode                          | 92%                                                                                               | 92%                                                                                               |
| <b>BATTERY</b>                        |                                                                                                   |                                                                                                   |
| Battery Type                          | Lead acid battery                                                                                 | Lead acid battery                                                                                 |
| Numbers                               | 16-20**                                                                                           | 16-20**                                                                                           |
| Charging Current                      | 2A (Default), 1/2/4/6/8A adjustable                                                               | 2A (Default), 1/2/4/6/8A adjustable                                                               |
| Charging Voltage                      | (13.65VDC $\times$ battery number) $\pm 1\%$                                                      | (13.65VDC $\times$ battery number) $\pm 1\%$                                                      |
| <b>PHYSICAL</b>                       |                                                                                                   |                                                                                                   |
| Dimension, D x W x H (mm)             | 509 x 438 x 88 (2U)                                                                               | 509 x 438 x 88 (2U)                                                                               |
| Net Weight (kg)                       | 11                                                                                                | 12.1                                                                                              |
| <b>ENVIRONMENT</b>                    |                                                                                                   |                                                                                                   |
| Operating Humidity                    | 20-95% RH @ 0-40°C (Non-condensing)                                                               | 20-95% RH @ 0-40°C (Non-condensing)                                                               |
| Noise Level                           | Less than 55dB @ 1 Meter                                                                          | Less than 58dB @ 1 Meter                                                                          |
| <b>MANAGEMENT</b>                     |                                                                                                   |                                                                                                   |
| Smart RS-232/USB                      | Supports Windows® Family, Linux and<br>MAC                                                        | Supports Windows® Family, Linux and<br>MAC                                                        |
| Optional SNMP                         | Power management from SNMP manager and<br>web browser                                             | Power management from SNMP manager and<br>web browser                                             |

\* Derate capacity to 60% of capacity in CVCF mode and to 90% when the output voltage is adjusted to 208VAC or parallel system is operated.

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