AMB

Tronic®

the power to lead

Server	Telecom	Industrial	Network	Hospitality	Medical

AMB-ON-PLUS RT UPS Series

- True double-conversion
- Output power factor 1
- Output voltage regulation   < 1%
- 50Hz/60Hz frequency converter mode
- Programmable power management outlets
- Hot swappable battery   design
- ECO mode energy saving
- Provides over voltage cutt-off protection and surge immunity by MOV for full time equipment protection
- High power factor charger upto   8A/12A capacity with very low ripple current when charging battery
- Low input THDi to reduce power system pollution
- Adjustable charging current via LCD panel
- Optional HID Power Device USB Port

- True double-conversion
- DSP technology guarantees high performance
- Output power factor 1
- 50Hz/60Hz frequency converter mode
- Emergency power off function (EPO)
- Generator compatible
- SNMP/USB/RS-232 communications
- Adjustable battery numbers
- Optional N+X parallel redundancy
- Adjustable charging current via LCD panel
- Supporting Hot Standby function

AMB-ON-PLUS RT UPS Series

▶ SPECIFICATION

MODEL	AMB-ON-PLUS-1000-RT		AMB-ON-PLUS-1500-RT	AMB-ON-PLUS-2000-RT		AMB-ON-PLUS-3000-RT
PHASE	Single phase with ground					
CAPACITY*	1000 VA / 1000 W		1500 VA / 1500 W	2000 VA / 2000 W		3000 VA / 3000 W
INPUT						
Nominal Voltage	100/110/115/120/127 VAC or 200/208/220/230/240 VAC					
Voltage Range	55-150 VAC ± 5% or 110-300 VAC ± 5% @ 50% load 80-150 VAC ± 5% or 160-300 VAC ± 5% @ 100% load					
Frequency Range	40 Hz ~ 70 Hz					
Power Factor	≥ 0.99 @ nominal voltage (100% load)					
Harmonic Distortion(THDi)	≤ 5% @ nominal input voltage					
OUTPUT						
Output Voltage	100*/110*/115*/120/127 VAC or 200*/208*/220/230/240 VAC					
AC Voltage Regulation (Batt. Mode)	± 1%					
Frequency Range (Synchronized Range)	57 ~ 63 Hz or 47 ~ 53 Hz					
Frequency Range (Batt. Mode)	60Hz ± 0.1Hz or 50 Hz ± 0.1Hz					
Current Crest Ratio	3:1 (max.)					
Harmonic Distortion	≤ 2 % THD (Linear Load) ; ≤ 4 % THD (Non-linear Load)					
Transfer Time — AC Mode to Batt. Mode	Zero					
Transfer Time — Inverter to Bypass	4 ms (Typical)					
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	12 V / 9 Ah	12 V / 7 Ah	12 V / 9 Ah	12 V / 9 Ah	12 V / 7 Ah	12 V / 9 Ah
Numbers	2	3	3	4	6	6
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	27.4 VDC ± 1%	41.1 VDC ± 1%	41.1 VDC ± 1%	54.8 VDC ±1%	82.1 VDC ±1%	82.1 VDC ±1%
INDICATORS						
LCD Display	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions					
ALARM						
Battery Mode	Sounding every 5 seconds					
Low Battery	Sounding every 2 seconds					
Overload	Sounding every second					
Fault	Continuously sounding					
PHYSICAL						
Dimension,DxWxH(mm)	410 x 438 x 88		410 x 438 x 88	510 x 438 x 88	630 x 438 x 88	630 x 438 x 88
Net Weight (without battery) (kgs)	6.6	7.8	8.1	9.4	10.6	12.4
Net Weight (w/built-int battery) (kgs)	11.6	14.1	15.5	19.5	23.3	27.5
ENVIRONMENT						
Humidity	20-90 % RH @ 0- 40°C (non-condensing)					
Noise Level	Less than 50dB @ 1 Meter					
MANAGEMENT						
Smart RS-232/USB	Supports Windows® 2000/2003/XP/Vista/2008/7/8/10, Linux 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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AMB-ON-PLUS RT UPS Series

SPECIFICATION

MODEL		AMB-ON-PLUS-6000-RT		AMB-ON-PLUS-10000-RT	
PHASE		1 phase in / 1 phase out			
CAPACITY*		6000 VA / 6000 W		10000 VA / 10000 W	
INPUT					
Nominal Voltage		208/220/230/240 VAC			
Voltage Range		110~300VAC ± 3 % at 50% load 176~300VAC ± 3 % at 100% load			
Frequency Range		46~54 Hz ◎ 50Hz / 56~64 Hz ◎ 60Hz			
Power Factor		≥ 0.99 @ full load			
THDi		< 4% @100% Load, < 6% @50% Load			
OUTPUT					
Output Voltage		208*/220/230/240 VAC		208*/220/230/240 VAC	
AC Voltage Regulation		± 1%			
Frequency Range (Synchronized Range)		46~54 Hz ◎ 50Hz / 56~64 Hz ◎ 60Hz			
Frequency Range (Batt. Mode)		50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz			
Current Crest Ratio		3:1 (max.)			
Harmonic Distortion		≤1% THD (Linear Load), ≤ 4% THD (Non-linear Load)			
Transfer Time	AC Mode to Batt. Mode	Zero			
	Inverter to Bypass	Zero			
Waveform (Batt. Mode)		Pure Sinewave			
Overload	AC Mode	100%~110%: 10min、 110%~130%: 1min、>130% : 1sec			
	Battery Mode	100%~110%: 30sec、 110%~130%: 10sec、>130% : 1sec			
EFFICIENCY					
AC Mode		94%		94%	
ECO Mode		98.5%		98.5%	
Battery Mode		92%		92%	
BATTERY					
Standard Model	Battery Type	12 V / 7 AH		12 V / 9 AH	
	Numbers	16	20	16	20
	Typical Recharge Time	9 hours recover to 90% capacity			
	Charging Current (max.)	1.0 A			
	Charging Voltage	218.4 VDC ± 1%	273 VDC ± 1%	218.4 VDC ± 1%	273 VDC ± 1%
Long-run Model	Battery Type	Depending on applications			
	Numbers	16-20**			
	Charging Current (max.)	4.0 A			
	Charging Voltage	(13.65VDC x battery number) ± 1%			
INDICATORS					
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)	UPS Unit: 610x438x88 [2U] Battery Pack:715x438x88 [2U]	UPS Unit: 610x438x88 [2U] Battery Pack:600x438x133 [3U]	UPS Unit: 610x438x88 [2U] Battery Pack:715x438x88 [2U]	UPS Unit: 610x438x88 [2U] Battery Pack:600x438x133 [3U]
	Net Weight (kgs)	UPS Unit: 17 Battery Pack: 48	UPS Unit: 17 Battery Pack: 57	UPS Unit: 20 Battery Pack: 53	UPS Unit: 20 Battery Pack: 63
Long-run Model	Dimension, D x W x H (mm)	610 x 438 x 88 [2U]		610 x 438 x 88 [2U]	
	Net Weight (kgs)	17		20	
ENVIRONMENT					
Operating Humidity		20-90 % RH @ 0- 40°C (non-condensing)			
Noise Level		Less than 55dB @ 1 Meter		Less than 58dB @ 1 Meter	
MANAGEMENT					
Smart RS-232 / USB		Supports Windows® 2000/2003/XP/Vista/2008, Windows ® 7/8/10, Linux and MAC			
Optional SNMP		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.
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