

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
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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



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AMB-ON-PLUS RT Series

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AMB-ON-PLUS RT UPS Series

SPECIFICATION

MODEL		10 1000 DT							
MODEL	AMB-ON-PL	US-1000-RT	AMB-ON-PLUS-1500-RT		US-2000-RT	AMB-ON-PLUS-3000-RT			
PHASE	Single phase with ground								
CAPACITY*	1000 VA /	1000 W	1500 VA / 1500 W	2000 VA	A / 2000 W	3000 VA / 3000 W			
INPUT	1		400/440/445/400/407 \/AO	00/000/000/000/000	0.1/4.0				
Nominal Voltage			100/110/115/120/127 VAC or 2						
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 AC Mode to Batt. Mode	Zero								
Time Inverter to Bypass	4 ms (Typical)								
Waveform (Batt. Mode)	Pure Sinewave								
EFFICIENCY									
AC Mode	≥ 89% @ full charged battery ≥ 91% @ full charged battery					rged 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					A, 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 43	38 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	2 for CE models					
*Derate capacity to 80% when the output	<u>,</u>								

*Derate capacity to 80% when the output voltage is adjusted to 100VAC/200VAC/208VAC. Product specifications are subject to change without further notice

all specifications are subject to change without notice. © 2020 Ambtronic LLC All Trademark are the property of their owners.

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SPECIFICATION

PHASE 1 phase in / 1 phase out 1 phase in / 1 phase out CAPACITY 6000 VA / 6000 W 10000 VA / 1000 W INPUT 0000 VA / 6000 W 10000 VA / 1000 W Nominal Voltage 208/220230/240 VAC 10000 VA / 1000 W Voltage Range 1105-300/VAC ± 3 % at 100% load Frequency Range 46-54 Hz 0 50Hz / 56-64 Hz 0 50Hz Prever Factor ± 0.90 g full load 208/220230/240 VAC 208/220/230/240 VAC AC Voltage Regulation ± 1% (% 010% load, < 6% (% 00% load) 208/220/230/240 VAC 208/220/230/240 VAC AC Voltage Regulation ± 1% 208/220/230/240 VAC 208/220/230/240 VAC AC AC Voltage Regulation ± 1% 50 Hz 10 Hz or 00 Hz	MODEL		AMB-ON-P	LUS-6000-RT	AMB-ON-PI	_US-10000-RT				
CAPACITY 6000 VA / 6000 W 10000 VA / 10000 W Nominal Voltage 208/220/200240 VAC 208/220/200240 VAC Voltage Range 1105–300/AC ± 3 % at 100% bad Frequency Range 1105–300/AC ± 3 % at 100% bad Prequency Range (Part Not Section 100% Load) 465 4H ± 0 6 0Hz 0.99 @ full load 0.91 @ full load OUTPUT < 4.9 % @ 100% Load, < 6% @ 50% Load										
INPLIT Description Nominal Votage 208/22/02/02/40 VAC Votage Range 110~300/VAC ± 3 % at 50% bad Frequency Range 46~54 Hz 0 60Hz / 56~64 Hz 0 60Hz Power Factor > 0.90 @ full bad THD < 4 % @ 100% Load, < 6 % @ 60% Load			6000 VA		· · ·	A / 10000 W				
Nominal Voltage 208/220/2002/04 VAC Voltage Range 110~300/AC ± 3 % at 100% load Frequency Range 45-64 ± 2 6 0Hz Power Factor 2.0.90 (p.III load THD < 4.% (200% Load, < 6% (200% Load)		<u>.</u>				.,				
Voltage Range 110°-000VAC ± 3 % at 100% load Frequency Range 46°-54 Hz 6 50Hz / 56°-64 Hz 6 50Hz Power Factor ≥ 0.90 @ full load THD < 4.% @ 100% load, < 6% @ 50% Load		oltage		208/220/	230/240 \/AC					
Volkage mainple 176-300VAC ± 3 % at 100% load Power Factor 2.0.90 @ Juli load POWER Teator 2.0.90 @ Juli load OUTPUT < 4% @ 100% Load, < 6% @ 50% Load										
Frequency Range 446-54 H2 © 50Hz / 56-64 H2 © 60Hz Power Factor 0.99 Ø (ull load) THD < 4% @ 100% Load, < 6% @ 50% Load	Voltage Ra	ange								
Power Fador \$ 0.99 @ full load OUTPUT < 4% @ 100% Load, < 6% @ 50% Load	Frequency	/ Range								
THD < 4% @ 100% Load, < 6% @ 60% Load										
OUTPUT 0017201 OUTPUT 0017201/230/240 VAC AC Voltage Regulation ± 1% Frequency Range (Synchronized Range) 46-54 Hz © 50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz Current Crest Ratio 3:1 (max.) Harmonic Distortion ≤1% TTD (Unon-linear Load). Transer AC Mode to Batt. Mode Mode to Batt. Mode 2ero Waveform (Batt. Mode) Pure Sinewave Overload Battery Mode Battery Mode 100%-110%: 30sec. 110%-130%: 11sec EFFICIENCY 94% AC Mode 94% ECO Mode 94% Battery Mode 92% Battery Type 12 V / 7 AH Numbers 16 20 Charging Ournet (max.) 1.0 A		5.01	8							
Output Voltage 208*/220/230/240 VAC 208*/220/230/240 VAC AC Voltage Regulation ± 1% Frequency Range (Srichtonized Range) 46-54 Hz © 50Hz ± 2/56-64 Hz © 60Hz Creation Creat Ratio 50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz Contrant Creat Ratio 3.1 (max.) Harmonic Distortion ≤ 1% THD (Linear Load), ≤ 4% THD (Non-linear Load) Inverter to Bypass Zero Inverter to Bypass Zero Waveform (Batt. Mode) Pure Sineware Overload ÅC Mode 100%-110%: 100%-130%: Timin. >130% : 1sec Battery Mode 94% 94% CCO Mode 98.5% 98.5% Battery Mode 92% 92% BATTERY 12 V / 9 AH 20 Charging Current (max.) 1.0 A 20 Charging Voltage 218.4 VDC ± 1% 273 VDC ± 1% Model Querent (max.) 4.0 A Charging Voltage 218.4 VDC ± 1% 273 VDC ± 1% Charging Voltage 218.4 VDC ± 1% 273 VDC ± 1% Charging Voltage 10.4 20										
AC Voltage Regulation ±1% Frequency Range (Synchronized Range) 46-54 H2 © 60H2 F 0.6 H2 ± 0.1 H2 Current Crest Ratio 311 (max.) Harmonic Distortion <11% TH2 (Unon-linear Load) Transfer AC Mode to Batt. Mode 22ero Waveform (Batt. Mode) Pure Sinewave Battery Mode 010%+110%: 10% 10% 110% 130% 15ec EFFICIENCY AC Mode 0100%+110% 100% 110% 10% 15ec EFFICIENCY AC Mode 040 100%+110% 10% 10% 10% 15ec EFFICIENCY AC Mode 040 94% ECO Mode 046.5% 98.5% Battery Mode 92% BATTERY Battery Type 12 V / 7 AH 12 V / 9 AH Numbers 16 20 16 20 Charging Unitage 218.4 VDC ± 1% 273 VDC ± 1% Charging Unitage 218.4 VDC ± 1% 273 VDC ± 1% Charging Unitage 218.4 VDC ± 1% 273 VDC ± 1% Charging Unitage 218.4 VDC ± 1% 273 VDC ± 1% Charging Unitage 10.4 AU Charging Unitage 10.4 AU Chargi		ltago								
Frequency Range (Synchronized Range) 46-54 Hz @ 50 Hz ± 0. Hz 0 Hz ± 0. Hz Frequency Range (Batt. Mode) 50 Hz ± 0. 1 Hz 0 Hz ± 0. 1 Hz Current Crest Ratio 3.1 (max.) Harmonic Distortion < 1% THD (Linear Load). < 4% THD (Non-linear Load)			200 /220/2			230/240 VAC				
Frequency Range (Batt Mode) 50H 2 ± 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 AC Mode to Batt. Mode) Zero Waveform (Batt. Mode) Zero Overload AC Mode 100% -110%: 30sec, 110% - 130%: 10sec, >130% : 1sec EFFICIENCY AC Mode 94% AC Mode 94% 94% ECO Mode 94% 94% ECO Mode 92% 92% Battery Mode 92% 92% BATTERY 10 / 7 / 40 / 12 / / 9 AH Numbers 16 20 Typical Recharge Time 9 hours recover to 90% capacity Typical Recharge Time 9 hours recover to 90% capacity Charging Outrant (max) 10.0 A Charging Voltage (13.6 SVDC ± 1% 273 VDC ± 1% ID/CATORS LOP anel UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions ALARM Sounding weery second Sounding weery second Battery Pack.510 Ad38x88 [2U]										
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AC Mode 100%~110%: 10min, 110%~130%: 1min, >130%: 1sec Battery Mode 100%~110%: 30sec, 110%~130%: 1sec FFICIENCY 44% AC Mode 94% ECO Mode 94% Battery Mode 94% Battery Mode 92% BATTERY 92% Model 10 Norder 92% Battery Type 12 V / 7 AH Numbers 16 Typical Recharge Time 20 Charging Voltage 218.4 VDC ± 1% Charging Voltage 218.4 VDC ± 1% Charging Voltage 218.4 VDC ± 1% Charging Voltage 10.6 A Charging Voltage (13.65VDC x battery number) ± 1% INDICATORS CLOP Panel LOP Panel UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions ALARM Sounding every second Battery Mode Sounding every second LOP Panel UPS Unit: 610x438x88 [2U] Nodel UPS Unit: 610x438x88 [2U] Model UPS Unit: 610x438x88 [2U] <td>Time</td> <td>Inverter to Bypass</td> <td></td> <td colspan="7">Zero</td>	Time	Inverter to Bypass		Zero						
Overload Battery Mode 100%-110%: 30sec, 110%-130%: 10sec, >130%: 1sec EFFICIENCY AC Mode 94% 94% AC Mode 98.5% 98.5% Battery Mode 92% 92% Battery Mode 92% 92% Battery Mode 92% 92% Battery Mode 92% 92% Standard Typical Recharge Time 12 V/7 AH 12 V/9 AH Typical Recharge Time 9 hours recover to 90% capacity 20 Charging Quirent (max.) 0.0 10 20 Charging Quirent (max.) 0.0 10.4 273 VDC ± 1% 273 V	Waveform	(Batt. Mode)	Pure Sinewave							
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AC Mode 94% 94% ECO Mode 98.5% 98.5% Battery Mode 92% 92% BATTERY 10 V / 9 AH 12 V / 9 AH Numbers 16 20 Typical Recharge Time 9 hours recover to 90% capacity 0 Charging Current (max.) 1.0 A 1.0 A Charging Current (max.) 1.0 A 218.4 VDC ± 1% 218.4 VDC ± 1% 218.4 VDC ± 1% 273 VDC ± 1% Charging Voltage 218.4 VDC ± 1% 218.4 VDC ± 1% 218.4 VDC ± 1% 273 VDC ± 1% Charging Vurnet (max.) 0 16.20* 0 Charging Vurnet (max.) 4.0 A 16.20* Charging Voltage (13.65VDC x battery number) ± 1% 10.0 A INDICATORS UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions ALARM Sounding every 4 seconds Battery Mode Sounding every second Constructure Sounding every second Fault Continuously sounding PHYSICX UPS Unit: 610x438x88 [2U] Battery Pack: 57 Battery Pack: 53 Battery Pack: 57 Battery Pack: 53 Battery Pack: 57 Battery Pack: 53 Battery Pack: 53 Battery Pack: 53 <	FFFICIEN									
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Charging Voltage 218.4 VDC ± 1% 218.4 VDC ± 1% 218.4 VDC ± 1% 273 VDC ± 1% Long-run Numbers Depending on applications Charging Current (max.) 4.0 A Charging Current (max.) 4.0 A 4.0 A Charging Voltage (13.65VDC x battery number) ± 1% INDICATORS LCD Pan UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions ALARM Sounding every 4 seconds Sounding every second Fault Overload Sounding twice every second Fault Continuously sounding PHYSICAL UPS Unit: 610x438x88 [2U] Battery Pack: 630 Battery Pack: 630 Battery Pack: 633 Battery Pack: 630 Battery Pack: 633 Battery Pack: 63 <										
Battery Type Depending on applications Long-run Numbers 16-20** Model Charging Current (max.) 4.0 A Charging Current (max.) (13.65VDC x battery number) ± 1% INDICATORS 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 UPS Unit: 610x438x88 [2U] UPS Unit: 610x438x88 [2U] Battery Pack:715x438x88 [2U] Model UPS Unit: 610x438x88 [2U] Battery Pack:715x438x88 [2U] Battery Pack: 630x438x13 [3U] Model UPS Unit: 17 UPS Unit: 17 UPS Unit: 20 UPS Unit: 20 Model UPS Unit: 17 UPS Unit: 17 UPS Unit: 20 Battery Pack: 63 Long-run Dimension, D x W x H (mm) 610 x 438 x 88 [2U] Model UPS Unit: 17 UPS Unit: 20 Battery Pack: 63 Long-run Dimension, D x W x H (mm) 610 x 438 x 88 [2U] 01 x 438 x 88 [2U] 01 x 438 x 88 [2U] 02 Note Level Less than 55d		,		1	0 A					
Long-run Model Numbers 10-20** Model Charging Current (max.) 4.0 A Charging Voltage (13.65VDC x battery number) ± 1% INDICATORS UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions ALARM Sounding every 4 seconds Low Battery Sounding every second Overload Sounding twice every second Fault Continuously sounding PHYSICAL UPS Unit: 610x438x88 [2U] Standard Model UPS Unit: 610x438x88 [2U] Iver Weight (kgs) UPS Unit: 17 Battery Pack: 63 UPS Unit: 20 Battery Pack: 63 U		000	218.4 VDC ± 1%	273 VDC ± 1%	218.4 VDC ± 1%	273 VDC ± 1%				
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Noise Level Less than 55dB @ 1 Meter Less than 58dB @ 1 Meter MANAGEMENT Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC Optional SNMP Power management from SNMP manager and web browser										
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	Operating H	lumidity		20-90 % RH @ 0- 40)°C (non-condensing)					
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			Less than 55dB @ 1 Meter Less than 58dB @ 1 Meter							
Optional SNMP Power management from SNMP manager and web browser	MANAGE	MENT								
	Smart RS-2	32 / USB	Supports Windows [®] 2000/2003/XP/Vista/2008, Windows [®] 7/8/10, Linux and MAC							
	Optional SN	IMP		Power management from SN	MP manager and web browser					
			e and to 90% when the output voltage is a							

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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