



SMART PLUS RT Online UPS

Single Phase Uninterruptible Power Supply

Smart plus is the new generation of small to medium power transformer-less UPS in tower or rack form.

This model offers unity power factor and is an ideal Solution for small computer centers, servers and for industrial applications.



Medical
equipment



Shops



Small offices



Sensitive IT loads



Telecom



Critical buildings



Alarm & security
systems



Small/medium
data center



www.itapower.it

SMART PLUS RT Online UPS 1KVA~10KVA



- True double-conversion
- DSP technology guarantees high performance
- Output power factor 1
- High efficiency up to 94%
- Hot swappable battery design
- 50Hz/60Hz frequency converter mode
- Emergency power off function (EPO)
- Generator compatible
- Adjustable battery numbers
- SNMP/USB/RS-232 communications
- Adjustable battery numbers
- ECO mode for energy saving
- Maintenance bypass available for 6-10KVA
- N+X parallel redundancy for 6-10KVA

Technical Specifications

MODEL		SMART PLUS RT 1000	SMART PLUS RT 2000	SMART PLUS RT 3000	SMART PLUS RT 6000	SMART PLUS RT 10000
PHASE		Single phase with ground				
Capacity		1000 VA / 1000 W	2000 VA / 2000 W	3000 VA / 3000 W	6000 VA / 6000 W	10000 VA / 10000 W
INPUT						
Nominal Voltage		200/208/220/230/240 VAC				
Voltage Range		160-300 VAC ± 5% @ 100% load				
Frequency Range		40Hz ~ 70Hz			46~54 Hz ◎ 50Hz / 56~64 Hz ◎ 60Hz	
Harmonic Distortion(THDI)		≤5% @ nominal input voltage			≤4% @ nominal input voltage	
Power Factor		≥ 0.99 @ nominal voltage (100% load)				
OUTPUT						
Output Voltage		200*/208*/220/230/240 VAC				
AC Voltage Regulation (Batt. Mode)		± 1%				
Frequency Range (Synchronized Range)		57 ~ 63 Hz or 47 ~ 53 Hz or			46~54 Hz ◎ 50 Hz / 56~64 Hz ◎ 60 Hz	
Frequency Range (Batt. Mode)		60Hz ± 0.1Hz or 50 Hz ± 0.1Hz			50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz	
Current Crest Ratio		3:1 (max.)				
Harmonic Distortion		≤ 2 % THD (Linear Load); ≤ 4 % THD (Non-linear load)			≤1% THD (Linear Load), ≤ 4 % THD (Non-linear Load)	
Transfer Time	AC mode to Battery mode	Zero				
	Inverter to Bypass	4 ms (Typical)			Zero	
Waveform (Batt. Mode)		Pure Sinewave				
EFFICIENCY						
AC Mode		≥89% @ full charged battery	≥91% @ full charged battery		≥94% with fully charged battery	
ECO Mode		≥ 96% @ full charged battery			≥98.5% with fully charged battery	
Battery Mode		≥88%	≥90%		≥92%	
BATTERY						
Battery Type		12 V / 9 AH	12 V / 9 AH	12 V / 9 AH	12V-7Ah or 12V /9Ah	
Numbers		2	4	6	16-20 in external battery cabinet	
Typical Recharge Time		3 hours recover to 95% capacity for internal battery@ 2A charging current			9 Hours to 90% capacity for internal battery	
Charging Current		Max. 12A adjustable		Max: 8A adjustable		Max: 8A selectable on front LCD display
Charging Voltage		27.4 VDC ± 1%	54.8 VDC ±1%	82.1 VDC ±1%	218.4VDC±1%	
PHYSICAL						
Dimension, D X W X H (mm)		410 x 438 x 88	510 x 438 x 88	630 x 438 x 88	610 X 438 X 88 (2U)	611 X 438 X 88 (2U)
Net Weight (without battery) (kgs)		6.6	9.4	12.4	17	20
Net Weight (w/built-int battery) (kgs)		11.6	19.5	27.5		
ENVIRONMENT						
Humidity		20-90 % RH @ 0-40°C (non-condensing)				
Noise Level		Less than 50dBA @ 1 Meter			Less than 55dBA @ 1 Meter	Less than 58dBA @ 1 Meter
Altitude		10% de-rating for over 1000m (The altitude should not exceed 3000m)				
MANAGEMENT						
Smart RS-232/USB		Supports Windows® 2000/2003/XP/Vista/2008/7/8, Linux and MAC				
Optional SNMP		Power management from SNMP manager and web browser				
STANDARD						
EMC/safety		EMC EN62040-2 C2 for CE models				

Product specifications are subject to change without further notice