

1 kVA - 3 kVA ON-LINE UPS

PRIME RT UPS is a double conversion ON-LINE UPS, Rack-Tower type, with advanced DSP control technology and Power Factor 1.0. They provide full power and ensure accuracy and stability in critical installations and applications.

They support a wide input voltage range (110V–300V AC) with automatic frequency detection and 50/60 Hz conversion.

With a digitally controlled 12A charger, intelligent battery management and cold start function, PRIME RT UPS ensures fast recharge, gradual degradation and longer battery life. PRIME RT UPS is ideal for data centers, business networks and industrial applications.



1 phase in / 1 phase out

COMPLETE APPLICATION PROTECTION



SERVERS



SECURITY



LIGHT
INDUSTRY



OFFICE
COMPUTERS



MEDICAL
APPLICATIONS

FEATURES

- High frequency on-line double conversion technology
- DSP (Digital signal processing) control technology
- Active power factor correction (APFC), input power factor up to 0.99
- Output power factor 1.0
- Wide input voltage range (110VAC - 300VAC)
- Auto sensing frequency
- 50 | 60 Hz frequency conversion
- Digitally controlled charger, charging voltage and current configured by demands
- High charging current available (12A)
- Cold start
- Rear ventilation design and variable speed fan
- Effective software and hardware protection
- Quick and stable charging, 90% capacity restored in 3h (standard model UPS)
- Linear derating in low voltage input reducing battery discharging times
- Advanced battery management (ABM)
- Multiple functions settable via LCD: output voltage, EOD, auto start, bypass mode, ECO mode
- Multi-platform communications: RS232 (standard), USB / RS485/ SNMP / dry contacts (optional)
- Optional USB, RS485 card, AS400 dry contacts, SNMP card, SMS alarms, EPO function

PRIME RT

ON-LINE UPS 1 kVA - 3 kVA



MODEL	PRIME 1101XLRTB2X9-S/(-I)	PRIME 1102XLRTB4X9-S/(-I)	PRIME 1103XLRTB6X9-S/(-I)
CODE	UPS.0942/UPS.0973	UPS.0943/UPS.0974	UPS.0944/UPS.0975
PHASE	1 phase in/ 1 phase out		
Capacity	1 kVA / 1 kW	2kVA / 2kW	3kVA / 3kW
INPUT			
Rated voltage	208 I 220 I 230 I 240 Vac		
Voltage range	110 ~ 176 Vac (linear derating between 50% and 100% load); 176 ~ 280 Vac (no derating); 280~300 Vac (derating 50%		
Frequency	50/60 Hz± 5 Hz (auto-sensing)		
Power factor	>= 0.99		
Bypass voltage range	- 40%~+20% (settable)		
Total harmonic distortion (THDi)	<=5%		
OUTPUT			
Voltage	208 I 220 I 230 I 240 Vac (settable via LCD)		
Voltage regulation	±1%		
Frequency	45~55 Hz or 55 ~ 65 Hz (synchronized range); 50 / 60 Hz± 0.1 Hz (battery mode)		
Waveform	Sinusoidal		
Power factor	1.0		
Total harmonic distrortion (THDv)	<= 2% (linear load), <= 5% (non-linear load)		
Crest factor	3:1		
Overload	105% ~110% for 30 min, 110% ~ 130% for 10 min, 130% ~ 150% for 30s, > 150% for 500 ms		
BATTERIES			
Battery type	Sealed lead acid maintenance free battery		
DC voltage	24V(XL)	48V(XL)	72V(XL)
Inbuilt battery	2x9Ah	4x9 Ah	6x9 Ah
Charging current (max.)	Long time model (XL): 12 A		
Recharge time	Long time model: depend on the capacity of battery		
SYSTEM			
Efficiency	>= 93.5% (Mains mode)	>= 94.5% (Mains mode)	>= 94.4% (Mains mode)
	>= 89.2% (Battery mode)	>= 91% (Battery mode)	>= 92.3% (Battery mode)
	>= 97.5% (ECO mode)	>= 98.5% (ECO mode)	>= 98.3% (ECO mode)
Transfer time	Mains mode to battery mode: 0ms Inverter mode to bypass mode: 4 ms (typical)		
Protections	Short-circuit, overload, overtemperature, battery discharge protection and fan testing protection		
Communication port	RS232 (standard), USB / RS485 / SNMP/ dry contacts (optional)		
Display	LCD		
ENVIRONMENT			
Operating humidity	0~ 95% RH @ 0~ 40°C (non-condensing)		
Storage temperature	-25°C ~ 55°C (exclude batteries)		
Operating altitude	0 ~ 95% (non-condensing)		
Altitude	<= 1000m, above 1000m, derating 1% for each additional 100 m		
IP rating	IP 20		
Noise level at 1m	<= 50 dB	<= 55dB	
Dimensions (W × D × H) (mm)	440x338x88	440x430x88	440x560x88
Packaged dimensions (W × D × H) (mm)	545x428x194	545x500x201	545x690x201
Net weight (kg)	10.92	17.76	22.3
Gross weight (kg)	12.88	20.8	25.34