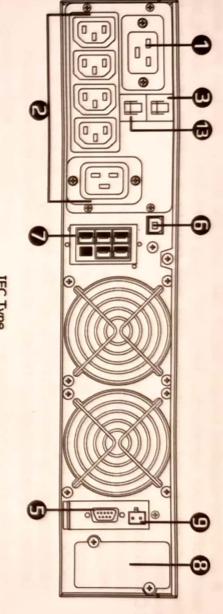
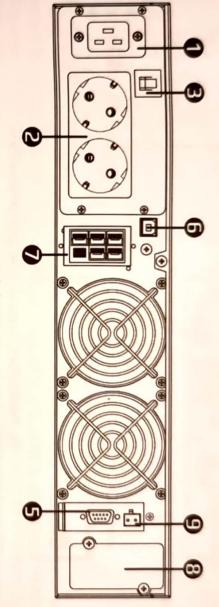
UPS

On-Line 1KVA-3KVA

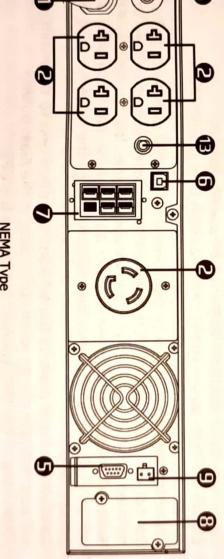




IEC Type



Schuko Type



NEMA Type

Interface port (optional)

EPO (optional)

- Input
- Outlet
- Input breaker
- Network transient protector
- RS232 port
- USB (optional)
- External battery port (optional)

- Outlet breaker
- 888899 Terminal block

Maintenance switch (optional)

- Reset

*Figures only display available function; functions are not on unit if not marked.

© All rights reserved. All trademarks are property of their respective owners.

6.4 Battery

Maintenance 6.4.1

The reliability of the battery is heavily related to the environmental issue. At the temperature of 25 degrees Celsius, a regular 6-12 months' check-up is advised.

6.4.2 Replacement



- Hold the display-side front panel corner; Pull out the other side lightly as arrow indicated. Then, push to the side to unlock the other tenon.
- Remove the battery cover, disconnect battery cable, then remove the battery. 2.
- Replace with the same type and quantity of battery,
- Reinstall the new battery and push it into the UPS.
- Reinstall the battery cover. Reinstall the front panel.

Note: Tower model battery replacements are not available by users. Please contact for technical assistance.

6.4.3 External battery pack

The following chart is the recommended specification of the external battery pack/cabinet. For other options, please ensure that the option meets safety instruction and local legislation.

Note: when power supplies by external batteries, output loads will be limited to

90% for overall power generation.

Model		1000	1500(Rack)	1500(Tower)	2000	3000	
Battery Type			12V 9A (option) 12V 7A				
Number of Batteries		6		8	12	12	
Back-up time /Full load (min) (Battery Pack Only)		Approx. 13-15		Approx. 13-15		Approx. 10-13	
Typical Recharge time		<8 hrs to 90%					
Dimensions WxDxH (mm)	Tower ype	144x357x228 191 x 406 x 324				324	
	Rack Type	428 x 425 x 84			428 x 635 x 84		
Net Weight (kgs)	Tower ype	18.0		24.5	33.4	37.0 (9AH battery)	
	Rack Type	20.7		-	37.3	40.8 (9AH battery)	

Maintenance Bypass Procedure

Maintenance

- Press the "ON/OFF" button to turn on UPS. It will operate in "Line-Mode." 1.
- 2. 3.
- Press the "Function" button for 3 seconds and toggle to "Manual Bypass."

 Press "Enter" to select. You will see the default setting "OFF" displayed in LCD.

 Use the "Function" button again to set Bypass on "ON" and press "Enter" again. UPS will go on "Manual Bypass Mode" with display indication.

Restore

- Check the UPS display; it should show "Manual Bypass Mode" with indications 1.
- Press the" Function" button for 3 seconds and toggle to "Manual Bypass." Press "Enter" to select. You will see the setting as "ON" displayed in LCD.
- Use the "Function" button again to set Bypass on "OFF" and press "Enter" again. UPS will return to Line-Mode.

APP-B Technical Specifications

For all model

* While 208V output, capacity will be derated to 90%.

- * While 100V input, capacity will be derated to 80% for 1.5K/2K/3K LV model.

 * While 110V input, capacity will be derated to 90% for 1.5K/2K/3K LV model.

 * Specifications are subject to change without further notice.

 ** Specifications are for reference; actual information based on the real product.

	Tower Mode	1000-L	1500-L	2000-L	3000-L			
Configuration		1 4000 1/4 / 4000 111	T 4800 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
Capacity (VA / Watts)		1000 VA / 1000 W	1500 VA / 1500 W	2000 VA / 2000 W	3000 VA / 3000 W			
Form		Tower Type						
Phase		Single Phase						
Energy Saving		Yes - ECO Mode Efficiency >94%						
Input		100	* / 4 4 0 * / 4 4 0 . / 4 4 0					
Voltage (Normal)		100* / 110* / 120 / 127 or 208 / 220 / 230 / 240 VAC						
Input Voltage Range		60 - 144 VAC, < 25% Load 120 - 276 VAC, < 25% Load 70 - 144 VAC, < 50% Load 140 - 276 VAC, < 50% Load 80 - 144 VAC, < 75% Load 160 - 276 VAC, < 75% Load 90 - 144 VAC, < 100% Load 180 - 276 VAC, < 100% Load						
Input Frequency Range		50 / 60 Hz (Auto Sensing)						
Input Power Factor		>0.97						
Cold Start		Yes						
Output				To grant a				
Rated Power Fact	tor		1	.0				
Waveform		Pure Sine Wave						
Voltage								
		100 / 110 / 115 / 120 / 127 VAC ± 2% or 208* / 220 / 230 / 240 VAC ± 2%						
Frequency Transfer Time		50 / 60 Hz ±0.25 Hz						
	ian	0 ms						
Harmonic Distorti	IOII	≤ 2.5% THD at Linear Load						
Crest Factor		3:1						
EPO Function			Op	tion				
Protection		1050/	1200/ 5 20	/4240/ 4500/ 6 40				
Overload	Line Mode	105% - 120% for 30 seconds / 121% - 150% for 10 seconds						
Battery Mode		101% - 109% for 10 seconds / 110% - 120% for 3 seconds						
Surge Protection		IEC 61000-4-5 Level 3						
Bypass		Internal Bypass (Automatic and Manual)						
Short Circuit Prot	ection	-	UPS Output Cut	Off Immediately				
Charger								
UPS		1A						
UPS Build In		5A						
Total		6A						
Battery								
		24V	48V	72V	72V			
/oltage	nce Free	24V		72V es	72V			
/oltage Sealed, Maintena		24V	Y		72V			
Voltage Sealed, Maintena Typical Recharge	Time	24V	Depends on ba	es	72V			
Voltage Sealed, Maintena Typical Recharge External Battery N	Time Module	24V	Depends on ba Op	es attery qunantity tion	72V			
Voltage Sealed, Maintena Typical Recharge External Battery N External Battery C	Time Module Connector	24V	Depends on ba Op	es attery qunantity	72V			
Voltage Sealed, Maintena Typical Recharge External Battery N External Battery C Vanagement & C	Time Module Connector	24V	Depends on ba Op Op	es attery qunantity tion	72V			
Voltage Sealed, Maintena Typical Recharge External Battery N External Battery C Management & C Indicator	Time Module Connector Communication	24V	Depends on ba Op Op LCD Con	es attery qunantity tion tion trol Panel	72V			
Voltage Sealed, Maintena Typical Recharge External Battery N External Battery C Management & C Indicator Communication P	Time Module Connector Communication	24V	Depends on ba Op Op LCD Con RS 232, L	es attery qunantity tion tion trol Panel	72V			
Voltage Sealed, Maintena Typical Recharge External Battery N External Battery C Management & C Indicator Communication P Mini Slot	Time Module Connector Communication	24V	Depends on ba Op Op LCD Con RS 232, L	es attery qunantity tion trol Panel USB B type tion	72V			
Voltage Sealed, Maintena Typical Recharge External Battery N External Battery C Vanagement & C Indicator Communication P Mini Slot Audible Alarms	Time Module Connector Communication	24V	Depends on ba Op Op LCD Con RS 232, L	es attery qunantity tion tion trol Panel	72V			
Voltage Sealed, Maintena Typical Recharge External Battery N External Battery C Management & C Indicator Communication P Mini Slot Audible Alarms Physical	Time Module Connector Communication Port		Depends on ba Op Op LCD Con RS 232, L	tion trol Panel ISB B type tion es	72V			
Voltage Sealed, Maintena Typical Recharge External Battery Management & Condicator Communication P Mini Slot Audible Alarms Physical Dimensions (WxD	Time Module Connector Communication Port	144 x 357 x 228	Depends on ba Op Op LCD Con RS 232, L	es attery qunantity tion tion trol Panel ISB B type tion es	72V			
Voltage Sealed, Maintena Typical Recharge External Battery N External Battery C Management & C Indicator Communication P Mini Slot Audible Alarms Physical	Time Module Connector Communication Port		Depends on ba Op Op LCD Con RS 232, L	tion trol Panel ISB B type tion es	72V			