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# Easy UPS On-Line Lithium-ion



## Easy UPS On-Line Lithium-ion Overview

- Easy UPS On-Line Lithium-ion accommodates a wide input voltage range and unstable power conditions and provides clean power for critical and sensitive devices in longer lifetime compared to VRLA generation.
- Lower Total Cost of Ownership (TCO) by minimizing battery replacement and labor costs during the life of the UPS. Easy UPS On-Line Lithium-ion minimizes battery maintenance during the life of the UPS so that professionals can focus on the core mission of helping organizations navigate through the landscape of modern technologies.
- Easy UPS On-Line Lithium-ion is rack/tower convertible design, network manageable UPSs that help address power challenges at the edge.

### Standard Model (Built-in Battery)



Rack/ Tower Convertible  
Available in 1, 2, 3 KVA

**SRVL1KRI-IN**

**SRVL2KRI-IN**

**SRVL3KRI-IN**

### Extended Runtime Mode



Rack/ Tower Convertible  
Available in 3

**SRVL3KRIL-IN**

Additional Battery Packs can be added @  
3 KVA: SRVL48RMBP2U



# Easy UPS On-Line Lithium-ion Key Features & Applications



**2-3X longer backup time** vs VRLA



**1/3 compact form factor, light and high-density** feature largely help **space saving**



**2X** Upfront cost of for li-ion technology in comparison to VRLA but benefit from **low TCO** in **longer battery design life** which provide customer **less maintenance effort and replacement effort under longer battery warranty.**



**2-3X quicker typical recharge time** save your precious time, highly increase work efficiency.



Flexible **Rack and Tower** Installation

- default with tower stand kit
- LCD display is 90° rotatable

## Typical Applications and Segments

Retail



E-commerce



Government



Edge Computing



Retail



SM Business



Telecom



Micro Data Center



Transport



BFSI / Banking



Healthcare IT



Digital Signage





## Introduction: 1-3 kVA, 230V Standard Model (Built-In Battery)







## Easy UPS On-Line Lithium-ion 230V India 1/2/3 kVA Standard

### Lithium-ion batteries

**2-3x** the battery life vs Lead Acid (VRLA) batteries; **2-3X** faster recharge time

### High Density, Compact, and Light Weight

Lithium-ion battery pack in 2U rack height allows **10mins runtime**, *lighter and space saving* compared to VRLA battery pack.

### Save more on Total Cost of Ownership

Lower Total Cost of Ownership (TCO) by minimizing battery replacement and labor costs during the life of the UPS.

### Versatile design with Rack/ Tower convertible

Provides flexibility to change from a rack to tower installation using default accessories.

### 3-year warranty

Comprehensive warranty for electronics and battery functionality provides peace of mind. Optional 2-year extended warranty support.

### Simplified Monitoring and Management

PowerChute™ Serial Shutdown software provides graceful unattended shutdown of servers and workstations which helps prevent data corruption and costly equipment damage.

Optional Network Management Card **AP9544** supports network-based monitoring and management of Easy UPS On-Line Lithium-ion and the ability to connect to Ecostruxure™ IT.



#### True online double-conversion on-line

Ensures clean, reliable power supply to essential loads from brownouts, line noise, voltage transients and power outages.

#### High Power Factor

More real output power in watts 0.9 PF (1, 2, 3 kVA).

#### High Efficiency

Up to **90%** efficiency in on-line double conversion mode and up to **96%** in ECO mode saves utility and cooling costs without compromising performance or reliability.

#### Emergency Power Off (EPO)

Remote UPS shutoff in the event of a fire or other emergency. The UPS can accept normally closed (NC) contacts.

#### 90°Rotatable LCD Display

Intuitive interface provides detailed and accurate information about UPS status with ability to configure locally.



		SRVL1KRI-IN	SRVL2KRI-IN	SRVL3KRI-IN
Output power rating (VA/ Watt)		1000VA/ 900W	2000VA/ 1800W	3000VA/ 2700W
Input				
Nominal input voltage		230V		
Input voltage range at full load(60% load)		160 - 285 V (110 V - 285 V)		
Input frequency		40 - 70 Hz		
Input connection		IEC 320 C14	IEC 320 C20	IEC 320 C20
Output				
Nominal output voltage		230 V (220 V, 240 V user selectable)		
Output frequency		50/60 Hz $\pm$ 3 Hz		
Topology		Double-conversion online		
Waveform type		Pure sinewave		
Efficiency: Double conversion mode		90 %	90 %	90 %
Efficiency: ECO mode		95%	96%	96%
Output connections		(4) India 6A	(4) India 6A (1) Terminal 24A	(4) India 6A (1) Terminal 24A
Battery and Runtime				
Battery type		Lithium-Ion		
Battery capacity		230.4 Wh	432 Wh	576 Wh
Battery voltage		38.4V	48V	48V
Typical recharge time		1.5 hours to recover 90% of capacity		
Runtime at half load (mins)		20	20	20
Runtime at full load (mins)		10	10	10
Communications and management				
Interface ports		Serial RS-232, USB (type B), Intelligent Smart-Slot		
Control panel		LED indicators, multi-function LCD, status and display console		
Emergency power off (EPO)		Yes (NC contacts)		
Physical				
Rack height (U)		2U		
Dimensions W x H x D (mm)		438 x 86 x 452	438 x 86 x 502	438 x 86 x 632
Net weight (kg)		13	16.6	22.1
Environment				
Operating temperature		0°C to 40°C		
Relative humidity		0 to 95% non-condensing		
Operating elevation		0 to 2,000m at 100% load (2,000m to 3,000m: The load capacity reduces @1% for every 100m increase in elevation)		
Audible noise at 1m from unit		50dB		
Protection class		IP 20		
Conformance				
Warranty		3 years		



## New Generation of Easy UPS Online SRVL

### Key Feature Improvement

- PF 0.9
- Efficiency 90%
- EPO embedded
- Rack/Tower convertible kit (default)

### Lithium Battery

- Longer battery life, better performance at backup time and faster recharge time compared to VRLA.

### PowerChute™ Serial Shutdown

- Provides UPS management, system shutdown and innovative energy reporting capabilities.

### Remote Monitoring and Management

- Optional Schneider Medium NMC AP9544 support

### Longer Warranty

- 3 years

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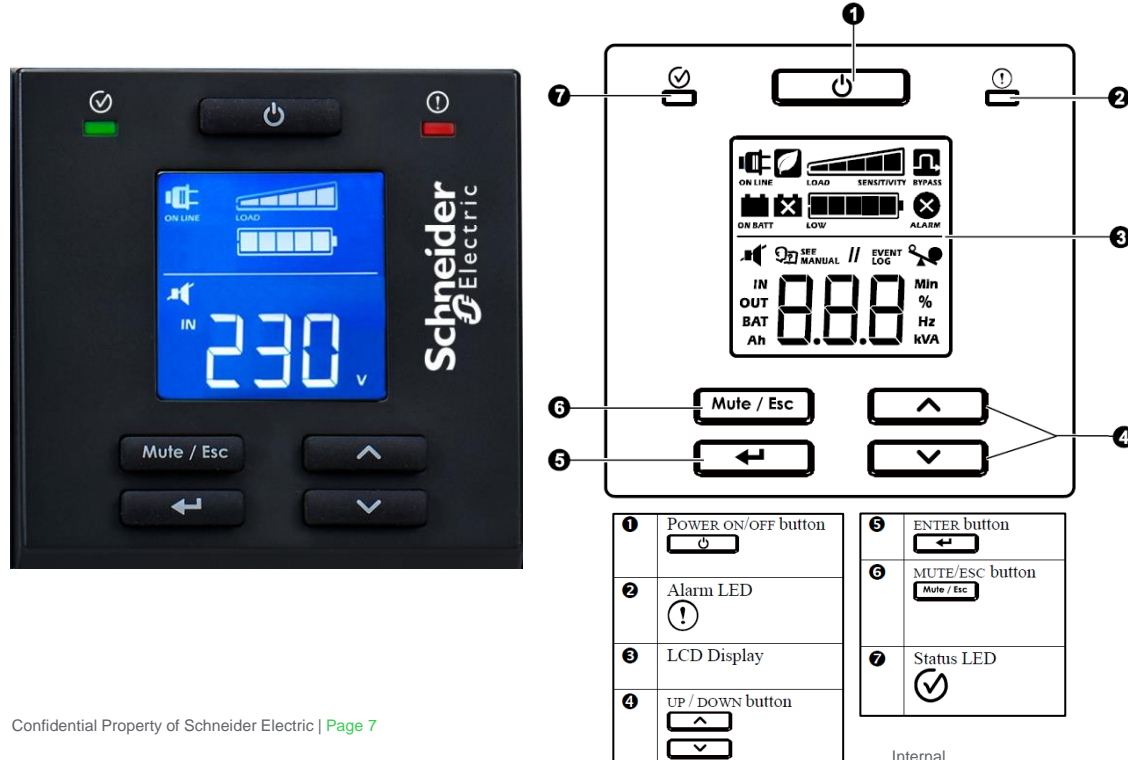
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## Front Panel – Push button & LCD Display

The front panel consists 2 parts: push button and display LCD set.

The push button is used to turn on and off the UPS. LCD display indicates the load level; the battery voltage level and operation status of the UPS. Besides, when the system works abnormally, the LCD will display the fault code.



Internal

### LCD Display ICONs



UPS is on utility power



UPS is on battery power



UPS is in Bypass mode



Replace Battery



ECO Mode – illuminated when the unit is providing utility power directly and power is within configured ranges



An internal fault is detected



Overload – connected load is drawing more than the power rating



Battery charge



Load level



Mute - audible alarm has been disabled



Alert or Notification – UPS has detected an error please view User's Manual for details



Event – Illuminated when the user is reviewing the event log



## Rear Panel

1 KVA



- 1. AC input connector : IEC 320 C20
- 2. Output outlets : (4)India 6A
- 3. Intelligent card slot

2 KVA



- 1. AC input connector : IEC 320 C20
- 2. Output outlets : (4)India 6A+;  
(1)Terminal 24A
- 3. Intelligent card slot

3 KVA



- 1. AC input connector : IEC 320 C20
- 2. Output outlets : (4)India 6A+;  
(1)Terminal 24A
- 3. Intelligent card slot





## Introduction: 3 kVA, 230V Extended Runtime Model



# Easy UPS On-Line Lithium-ion 230v 3 ext. runtime

## Key Features & Benefit

### Lithium-ion batteries

**2-3x** the battery life vs Lead Acid (VRLA) batteries; **2-3X** faster recharge time

### High Density, Compact, and Light Weight

**Single Lithium-ion battery pack in 3U** rack height allows **40 mins @ 3 KVA runtime, lighter and space saving** compared to VRLA battery pack. Further runtime can be extended with additional Battery Packs

### Save more on Total Cost of Ownership

Lower Total Cost of Ownership (TCO) by minimizing battery replacement and labor costs during the life of the UPS.

### Versatile design with Rack/ Tower convertible

Provides flexibility to change from a rack to tower installation using default accessories.

### 3-year warranty on UPS, 5-year warranty on XBP

Comprehensive warranty for electronics and battery functionality provides peace of mind. In an unlikely event of a detected fault, your product will be repaired.

### Simplified Monitoring and Management

PowerChute™ Business Edition software provides graceful unattended shutdown of servers and workstations which helps prevent data corruption and costly equipment damage.

Optional Network Management Card AP9544 supports network-based monitoring and management of Easy UPS On-Line Lithium-ion and the ability to connect to Ecostruxure™ IT.



+



### True online double-conversion on-line

Ensures clean, reliable power supply to essential loads from brownouts, line noise, voltage transients and power outages.

### High Power Factor

More real output power in watts 3 kVA@**0.9**

### High Efficiency

High Efficiency in on-line double conversion mode and ECO mode saves utility and cooling costs without compromising performance or reliability.

### Emergency Power Off (EPO)

Remote UPS shutoff in the event of a fire or other emergency. The UPS can accept normally closed (NC) contacts.

### 90°Rotatable LCD Display

Intuitive interface provides detailed and accurate information about UPS status with ability to configure locally.

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	SRVL3KRIL-IN
Power rating	3000 VA/2700 W
Input	
Nominal input voltage	230 V
Input voltage range at Full Load (60%)	160 – 285 V (110 – 285 V)
Input frequency	40 – 70 Hz
Input connection	IEC 60320 C20
Output	
Nominal output voltage	230 V (220 V, 240 V user selectable)
Output frequency	50/60 Hz (+/- 3 Hz)
Topology and Waveform type	Double-conversion on-line, Pure sine wave
Efficiency: Online mode (Typical)	Up to 90%
Efficiency: ECO mode (Typical)	Up to 96%
Output Connections	(4) India 6 A, (1) Terminal block (24 A)
Battery and Runtime <sup>1</sup>	
Battery type	Lithium-Ion
Battery capacity and voltage	2400 Wh, 48 V
Typical recharge time (Recover to 90% of capacity)	4.8 hours
Runtime at Half load/Full load <sup>1</sup>	85 minutes/40 minutes
Maximum battery pack support	3
Communications and management	
Interface ports	Serial RS-232, USB (Type B), Intelligent Card Slot RS-485 (RJ45) between UPS and Battery Pack; CANbus (RJ11) between multiple battery packs
Control panel	LED indicators, multi-function LCD, status and display console
Software	Yes, PowerChute Serial Shutdown
Emergency power off (EPO)	Yes (NC contacts)
Physical	
Rack height (U) (Power Module + Battery Pack)	4U
Dimensions W x H x D (Power Module)	438 x 86 x 502 mm
Dimensions W x H x D (Battery Pack)	438 x 86 x 616 mm
Net weight (Power Module)	10.0 Kg
Net weight (Battery Pack)	28.3 Kg
Environment	
Operating temperature	0 to 40 °C
Relative humidity	0 to 95% non-condensing
Operating elevation	0 – 2,000 m at 100% load (2,000 – 3,000 m: load capacity reduces @1% for every 100 m increase in elevation)
Audible noise <sup>2</sup>	Less than 50 dBA
Protection class	IP20



## New Generation of Easy UPS Online

### Key Feature Improvement

- PF 0.9
- Efficiency 90%
- EPO embedded
- Rack/Tower convertible kit (default)

### Lithium Battery

- Battery Management System included for better management and safety

### PowerChute™ Serial Shutdown

- Provides UPS management, system shutdown and innovative energy reporting capabilities.

### Remote Monitoring and Management

- Optional Schneider Medium NMC AP9544 support

### Longer Warranty

- 3 years UPS, 5 years Battery

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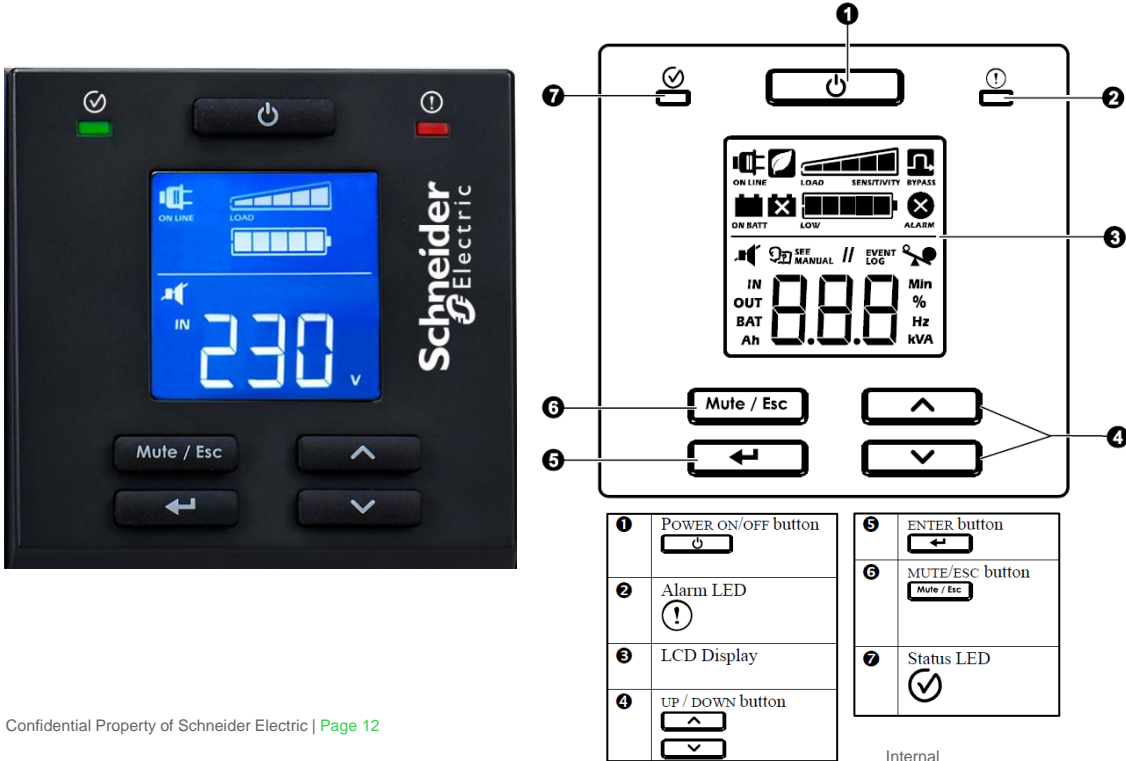




# Front Panel – Push button & LCD Display

The front panel consists 2 parts: push button and display LCD set.

The push button is used to turn on and off the UPS. LCD display indicates the load level; the battery voltage level and operation status of the UPS. Besides, when the system works abnormally, the LCD will display the fault code.

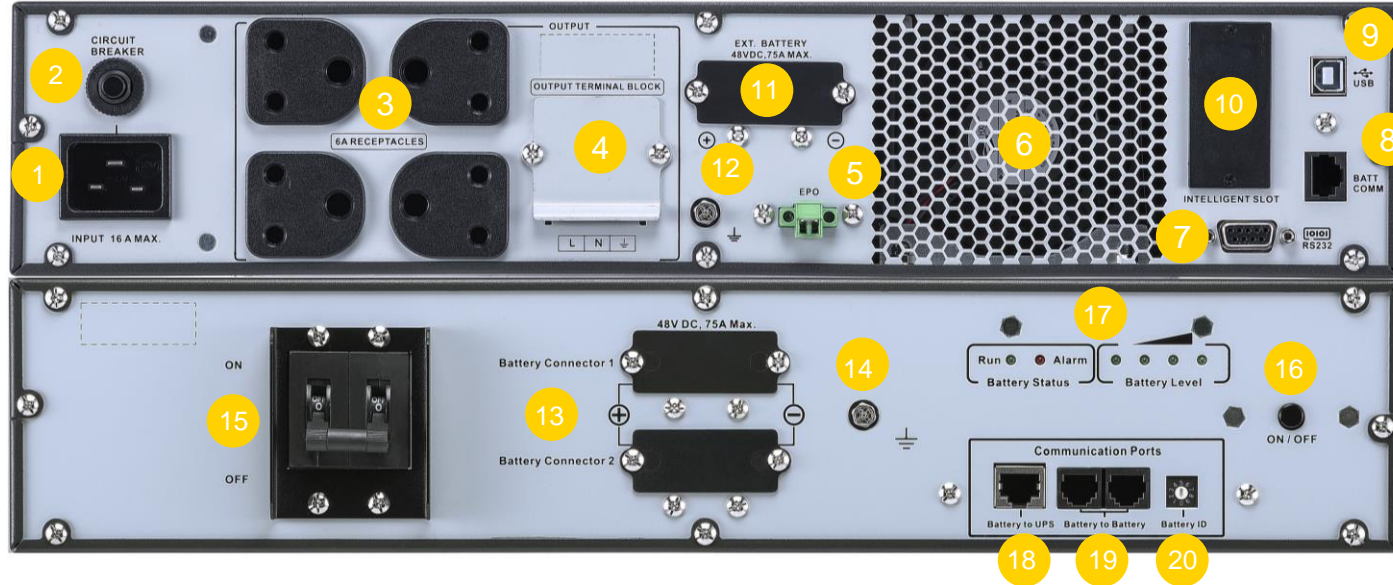


## LCD Display ICONs

- ON LINE: UPS is on utility power
- ON BATT: UPS is on battery power
- BYPASS: UPS is in Bypass mode
- Replace Battery
- ECO Mode – illuminated when the unit is providing utility power directly and power is within configured ranges
- ALARM: An internal fault is detected
- Overload – connected load is drawing more than the power rating
- Battery charge
- Load level
- Mute - audible alarm has been disabled
- Alert or Notification – UPS has detected an error please view User's Manual for details
- Event – Illuminated when the user is reviewing the event log



## Rear Panel – 3 KVA Extended Runtime Model



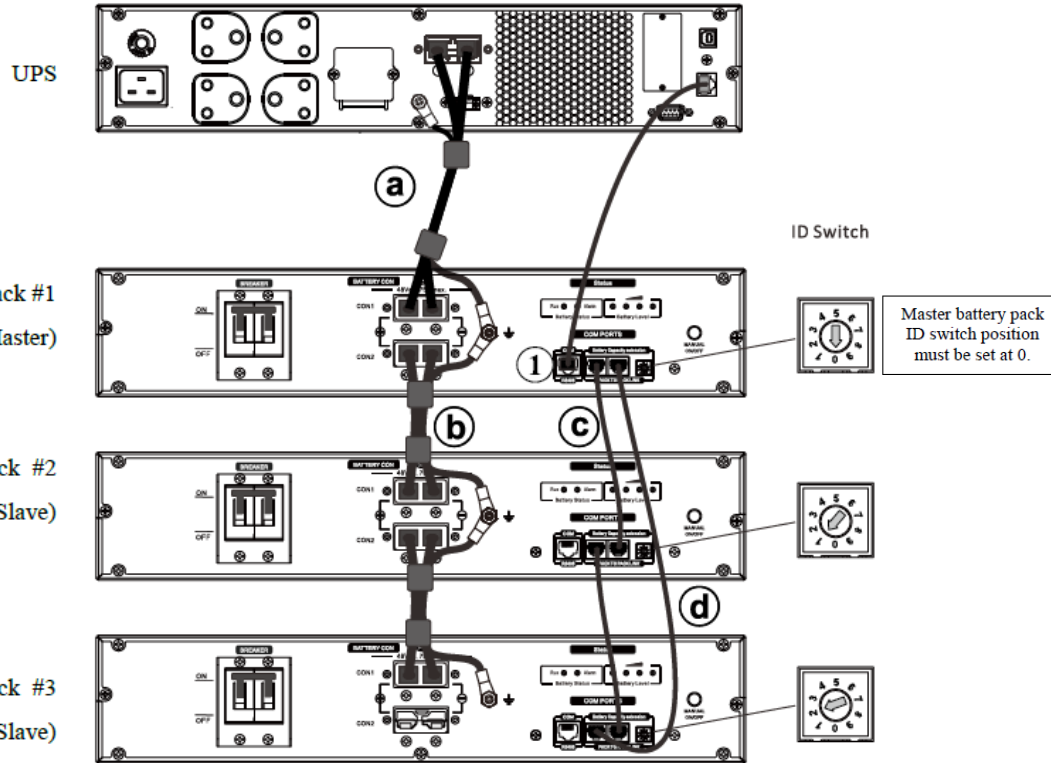
1. AC input connector
2. Input circuit breaker
3. Output outlets
4. Terminal
5. Emergency power off function connector (EPO connector)
6. Cooling Fan
7. RS232
8. RS-485 Communication port (RJ45 connect to XBP)
9. USB
10. Intelligent card slot
11. External battery connector
12. Ground

13. External battery connector
14. Ground
15. Circuit breaker
16. MANUAL ON/OFF button
17. Battery status & level LED
18. Battery Management System (BMS) COM port (RJ45)
19. Battery Pack to Pack Extension port (RJ11)
20. ID switch





## Runtime with External Battery Pack support



	SRVL3KRIL-IN
UPS at Half / Full Load	1350W / 2700W
SRVL3KRIL-IN	1hr 25mins / 40mins
SRVL3KRIL-IN + (1) SRVL48RMBP2U	2hrs 50mins / 1hr 20mins
SRVL3KRIL-IN + (2) SRVL48RMBP2U	4hrs 15mins / 2hrs

\* Runtime in the table are approximate only.



## India Internal VRLA comparison



Project	SRV LB UPS			SRV VRLA UPS		
SKU PN	SRVL1KRI-IN	SRVL2KRI-IN	SRVL3KRI-IN	SRV1KL-IN	SRV2KL-IN	SRV3KL-IN
Topology	Online	Online	Online	Online	Online	Online
Voltage	230V	230V	230V	230V	230V	230V
Watt	900W	1800W	2700W	800W	1600W	2400W
VA Range	1 KVA	2 KVA	3 KVA	1 KVA	2 KVA	3 KVA
Power Factor	0.9	0.9	0.9	0.8	0.8	0.8
Efficiency	90%	90%	90%	88%	88%	90%
Output Connection	4	4+1	4+1	4	4	4+1
Recharge time	1.5H	1.5H	1.5H	4H	4H	4H
Full Load Runtime	10 mins	10 mins	10 mins	4 mins	2 mins	3 mins
Extended Runtime	X	X	X	X	X	X
Operating Temp.	0-40°	0-40°	0-40°	0-40°	0-40°	0-40°
EPO	V	V	V	V	X	X
R/T design	V	V	V	X	X	X
Dimension	2U	2U	2U	2U	2U	2U
Warranty	3yr	3yr	3yr	2yr	2yr	2yr



**2-3X longer backup time** support of Sarabi 2U compared to Magellan.

**1/3 compact form factor, light and high-density feature** largely help space saving, especially data center application. Easy operation, maintenance and less cable is good for cooling



**2X Upfront cost of latest li-ion technology** but benefit from low TCO in longer battery design life which provide customer **less maintenance effort and replacement effort under longer battery warranty.** (Sarabi 3yr v.s. Magellan 2yr)



**2-3X quicker typical recharge time** save your precious time and highly increase work efficiency.



**Flexible Rack and Tower Installation**

- default with tower stand kit
- LCD display is 90° rotatable

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## India Internal VRLA comparison



Save on TCO + Space Saving+ Lighter!!



Project	Sarabi India	Summit
SKU PN	SRVL3KRIL-IN	SRV3KRIL-IN
Topology	Online	Online
Voltage	230V	230V
Watt	2700W	2400W
VA Range	3 KVA	3 KVA
Power Factor	0.9	0.8
Efficiency	90%	90%
Output Connection	4+1	3+1
Recharge time	4.8H	4H
Full Load Runtime	40 mins	10 mins
Extended Runtime	up to 3 XBPs	up to 5 XBPs
Operating Temp.	0-40°	0-40°
EPO	V	V
R/T design	V	X
Dimension	4U	4U
Warranty	3yr UPS, 5yr battery	2yr

SRVL 230v 3KVA up to 40mins run time!!

Lithium-Ion

SRVL



TCO saving  
4U Space saving  
72% Lighter

VRLA

SRV



SRV72RLBP-9A



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**AP9544**

(Network Management Card)

### For remote management and control

NMC card allows for direct connection and control of an individual APC UPS unit via web browser. The configurable notification features keep you informed of detected problems as they occur



**VGL9901I**

(Dry Contact Card)

### Monitor external triggers and initiate actions

Dry contact card accessory provides one dry contact input and six relay output interfaces to Easy UPS On-Line SRVL series.



**SRVSMB001**

(Modbus Card)

### Communication with PCs through MODBUS protocol

Easy Management Modbus Card provides UPS and PV inverter systems with the functionality of communication with PCs.



**SRVRK1**

(RAIL KIT, 700MM)

### Rack cabinet Installation

For standard 19 inches rack equipment with maximum weight of 60 kgs

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