



SRLi

DYNAMIC

The Dynamic SRLi UPS is the ideal UPS for your power infrastructure. It provides a steady stream of power to your essential devices regardless of any power condition issues. Featuring industry leading Lithium-Ion battery technology, our compact form-factor UPS is **50-60%** smaller than Lead-acid battery powered systems. Additionally, the modular nature of the Dynamic SRLi UPS makes it an adaptable and powerful option able to cater to many situations.



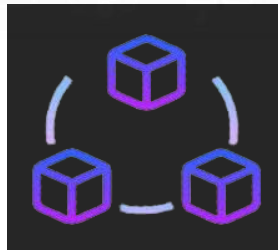
Hot-Swap

Modules able to be added/removed without disconnecting load



Lithium Ion

Advanced Lithium Ion battery system



Modular Structure

Capacity able to be changed to meet the requirements of the load

Applications

- Computing
- Telecommunications
- Medical equipment
- SoHo
- And more

Charging Circuit

The Dynamic SRLi UPS is equipped with specialized charging circuit with features to ensure long service life from the batteries. There are also protection features to prevent any inadvertent overcharging or discharge of batteries.

These features include:

- Floating charge
- Equalized charge
- Battery temperature sensor and cooling fans
- Battery min/max voltage setting

LCD Interface

Displays UPS parameters, such as Output Load/Voltage, Battery Charge/Load, and more.

Allows for change of UPS Settings through the front panel controls.

UPS structure

The Dynamic SRLi UPS has a modular, multi-level decentralized control structure with Master-Slave synchronization.

It consists of the Sub-Rack (12, 24 or 36kVA sizes available), Modules (which contain individual complete UPS functions, control unit and common battery bank).

The advantage of this structure is in the adaptability, and ease of use. The common battery design allows for a neat wiring solution, where several modules can share a battery.



Communication

SNMP Card

SNMP card enables remote monitoring and management of the UPS with any device capable of running internet browser with a connection to the network.

SNMP monitors UPS operating parameters, alarms, log history and more.



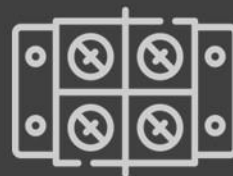
RS485/RS232

- Interface for communication with computer
- Allows for parameter monitoring



RJ45

- Connection to battery Temperature probe
- Allows interfacing with BMS



Dry Contact

- Alert Function for various parameters
- User assignable functions on several pins

Anatomy of SRLi Dynamic Modular Lithium UPS



Control Unit

Communicates with modules and battery as well as assigns loads to the connected modules. Also contains the User Interface, which consists of the LCD, control buttons.



6kVa Module

Each module is equipped with full UPS functionality. The modules are hot-swap enabled, in n+X parallel redundancy configuration.



Lithium-Ion Battery Pack

Each lithium ion battery pack has sufficient capacity to sustain one 6kVA module at full load for 20 minutes. High power density and supports 3C charge and discharge.

Technologies

Hot-swap Capability

Hot-swap enabled modules allow for access without interrupting power to the load. This means that the SRLi Dynamic UPS is able to have modules drop-in to replace a module in the event of module failure, or for maintenance.

The configuration of modules is handled by the control unit automatically. Whenever a module is added or removed, the control unit will be able to detect and adjust accordingly without user input.

Modular Structure

A major advantage of our modular UPS is in its versatility. By having modules that are able to be installed or removed on demand without disrupting power to load, many conveniences and benefits are afforded to the user. For example, it allows for a progressive upgrade. The SRLi Dynamic UPS is able to match the needed capacity of your load by adding modules as your power requirements goes up. It is an exceptionally economical investment that is not limited by the initial chosen capacity.

Lithium Ion Technology

Lithium Ion technology brings many benefits over previous industry standard, Lead acid technology. Lithium Ion batteries are more power dense, being able to achieve higher capacity than Lead acid in a smaller and lighter form factor.

The charging/discharging rate of lithium ion batteries are also higher than lead acid batteries. Lithium ion batteries are also more efficient, and have a longer lifespan than lead acid batteries. Additionally, they require less maintenance as compared to lead acid batteries.

**Reliable.
Compact.
Versatile.**

System Models

The Dynamic SRLi UPS consists of various Sub-Rack (12, 24 or 36kVA sizes available) as shown below.



12kVA Modular UPS



24kVA Modular UPS



36kVA Modular UPS

Technical Specifications

SYSTEM MODEL		DYNAMIC SRLi 12K-SS	DYNAMIC SRLi 24K-SS	DYNAMIC SRLi 36K-SS
Maximum power		12KVA / 10.8KW	24KVA / 21.6KW	36KVA / 32.4KW
UPS module model		DYNAMIC SRLi 6K PM-SS		
Mains Input	Input mode	1-phase +N +E		3-phase +N +E, 1-phase +N +E
	Input voltage	220V, 230V, 240V		380V/220V, 400V/230V, 415V/240V
	Input voltage range	380V/220V±20%		
	Input frequency	50Hz±10%, 60Hz±10%		
	Power walk-in (Sec.)	60sec		
	THDI (%)	< 5%		
Bypass Input	Input PF	≥0.99		
	Input voltage	220V, 230V, 240V		380V/220V, 400V/230V, 415V/240V
	Input frequency	50 Hz±10%, 60 Hz±10%		
DC Input	Range of Frequency Synchrony	50 Hz±4%, 60 Hz±4%		
	Rated Input voltage	/ ±192V / ±216V / ±240V		
AC output	Output voltage	220V, 230V, 240V		380V/220V, 400V/230V, 415V/240V
	UPS power factor	0.9		
	Output frequency range	50±0.5 Hz		
	Output voltage stability	≤1%		
	Output voltage recovering time	≤20ms		
	Switch time	0ms (From AC input to battery (DC) input)		
	Overload ability	Operate 10mins with 125% load.		
	Peak factor	3:1		
	Waveform distortion	≤2% (linear load), ≤4% (non-linear load)		
Operation environment	Overall efficiency	≥94%		
	Ambient temperature	-25°C ~ 60°C		
	Operating temperature	-5°C ~ 40°C		
	Altitude (m)	≤5000; derating over 1000 meters		
	Relative humidity	≤95%,No condensation		
	Protection degree	IP20		
Others	Cooling	Air cooling		
	Acoustic noise	≤52DB		
System dimension (W*D*H) (mm)	System dimension (W*D*H) (mm)	482*635*132.5	482*635*220	482*635*310
	Communications	RS232/RS485, SNMP(optional)		

Due to ongoing product improvements, specifications are subject to change without notice.