



# UPS SOLUTIONS

## XRT-MTX+ S<sup>3</sup> Li-Ion

All-In-One  
Power Solution  
(10kVA-40kVA)



ENQUIRE NOW

# XRT-MTX + S<sup>3</sup> Li-Ion

## All-In-One

### S<sup>3</sup> Lithium-Ion Power Solution:

Compact, Reliable, and Efficient  
Power Backup



## S<sup>3</sup> Lithium-Ion Power

10kVA-40kVA Models

### Key Features

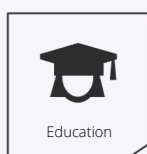
- ✓ All-in-One Design
- ✓ Touch Screen Monitoring
- ✓ Hot-Swappable Lithium Battery Module
- ✓ Extended Backup Time
- ✓ Scalable & Flexible



### Application



Government



Education



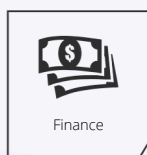
Transportation



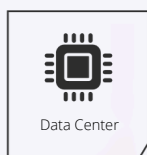
Communication



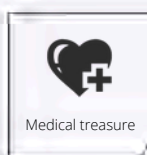
Enterprise



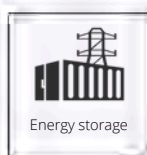
Finance



Data Center



Medical treasure



Energy storage



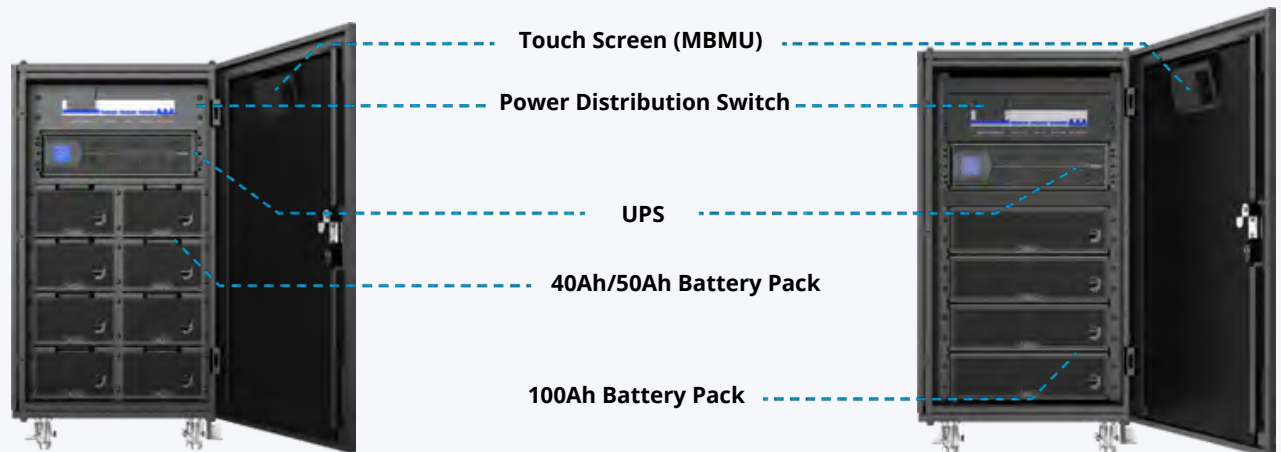
Industry

# XRT-MTX + S<sup>3</sup> Li-Ion All-In-One

Power Solution (10kVA-40kVA)

The UPS Solutions XRT-MTX + S<sup>3</sup> Lithium-Ion All-In-One Power Solution integrates UPS, power distribution, and battery into a single, streamlined cabinet. Designed to meet the needs of IT computer rooms, regional office buildings, and commercial security systems, this innovative solution offers long-term backup power with a minimal footprint.

## Product Configuration



40Ah/50Ah Lithium-Ion Battery  
System Cabinet

100Ah Lithium-Ion Battery  
System Cabinet

**UPS Solutions**  
**XRT-MTX + S<sup>3</sup> Lithium-Ion All-In-One Power Solution**

# Product Features

## Compact Design

The UPS Solutions XRT-MTX + S<sup>3</sup> Lithium-Ion All-In-One Power Solution integrates UPS, battery, and power distribution switches into a single, space-efficient cabinet. It provides extended backup power with a minimal footprint, simplifying maintenance and installation.

## ✓ Reliability & Scalability

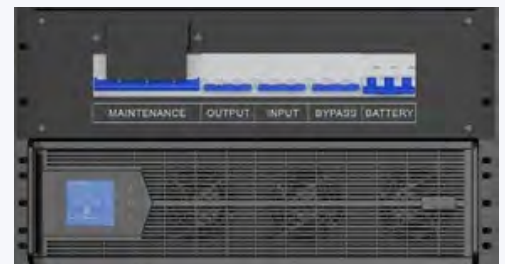
Ensuring consistent performance and flexible growth.

### Battery Packs in Parallel Design:

- **Modular Parallel Design:** Offers flexibility for expansion as power needs grow.
- **Mixed Battery Compatibility:** Supports old and new batteries operating simultaneously at the module level.
- **Automatic Module Exit:** Faulty modules disconnect automatically without affecting the overall system, ensuring continuous operation and enhanced reliability.



Mixed use with the old and new batteries



## ✓ Safety & Protection

Comprehensive protection for peace of mind.

### DC/DC Isolated Solution:

- **Electrical Isolation:** Separates the mains from the battery, providing superior safety.
- **Leakage Prevention:** Minimizes risk associated with liquid leakage from battery cells.

### Fire-Fighting Protection:

- **Extreme Condition Resilience:** Provides fire suppression even in the event of complete battery failure.

### Full Breaker Design:

- **Comprehensive Protection:** Includes input, output, bypass, and maintenance bypass breakers, enhancing system stability.



## ✓ Convenience & Efficiency

Built for user-friendly operation and streamlined maintenance.

### Centralised Monitoring:

- **Integrated Touch Screen:** Visualises all critical information from the batteries and UPS on a single, user-friendly interface.

### Modular Design:

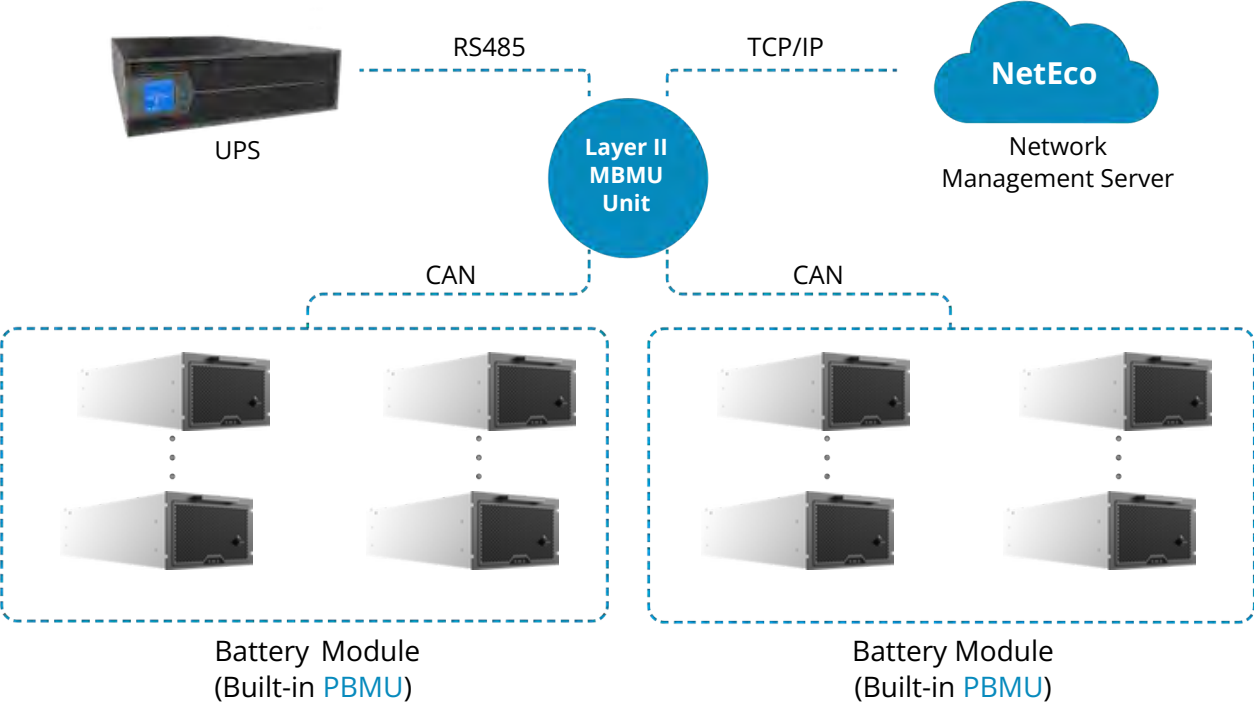
- **Plug and Play:** Simplifies installation and reduces OPEX costs.
- **Easy Maintenance:** Hot-swappable modules for quick and hassle-free servicing.

### Tilt Design Touch Screen:

- **User-Friendly Operation:** Enhanced visibility and usability for efficient monitoring and control.

# Enhanced Two-Layer BMS Architecture

Our advanced two-layer Battery Management System (BMS) architecture (PBMU/MBMU) delivers comprehensive protection and reliability. This design ensures optimal performance and safety across all levels—cell, module, and system—by intelligently monitoring and managing lithium-ion battery operations.



# Technical Specifications & Runtime Configuration

The XRT-MTX + S<sup>3</sup> Li-Ion range is available 10kVA-40kVA configurations, with flexible lithium battery options to suit short, medium, and extended runtime requirements. The tables below provide a general reference for system configuration and performance. Final runtime and battery sizing should be confirmed based on site load and operational requirements.

## Battery Configuration Table

Battery Module (mins) \ UPS Capacity (kW)	1	2	3	4	5	6	7	8
10	10	20	30	40	50	60	70	80
20	/	10	15	30	25	30	35	40
30	/	/	10	20	16	20	23	26
40	/	/	/	10	12	15	17	20

### 2.50Ah Battery Module - Medium Duration Power Backup

Battery Module (mins) \ UPS Capacity (kW)	1	2	3	4	5	6	7	8
10	15	30	45	60	75	90	105	120
20	/	15	22	30	37	45	52	60
30	/	/	15	20	25	30	35	40
40	/	/	/	15	18	22	26	30

### 3.100Ah Battery Module - Long Duration Power Backup

Battery Module (mins) \ UPS Capacity (kW)	1	2	3	4
10	/	60	90	120
20	/	/	/	60

**Note:**

The above configurations are provided as general references. Actual measurements may vary depending on specific system requirements and conditions.

# Technical parameters (All-in-one Solution)

Product Type	XRT-MTX-S3-S08-3310 XRT-MTX-S3-L04-3310	XRT-MTX-S3-S08-3320 XRT-MTX-S3-L04-3320	XRT-MTX-S3-S08-3330	XRT-MTX-S3-S08-3340
Power Rating	10K	20K	30K	40K
<b>INPUT</b>				
Phase	1:1/3:1/3:3		3:1/3:3	
Voltage (Vac) <sup>1</sup>	138-485 (L-L)			
Frequency (Hz)	40-70			
Power Factor	≥0.99			
THDi	<3% (linear load)			
<b>OUTPUT</b>				
Phase	1:1/3:1/3:3		3:1/3:3	
Capacity (kVA)	10	20	30	40
AC/AC Efficiency (Max.)	96%			
Power Factor	0.9 (1.0 at 40°C)			
Voltage (Vac) <sup>2</sup>	380/400/415±1% (L-L)			
Frequency (Hz)	50/60±0.1% (battery mode)			
THDv	THD <2% (linear load), THD < 4% (nonlinear load)		THD <1% (linear load), THD <3% (nonlinear load)	
Transfer Time (ms)	0			
Overload	115%~130% load: 15 min, 130%~150% load: 1 min, >150% load: 200ms			
<b>GENERAL</b>				
Communication Interface	RS485+EPO (RS232+Dry contact, SNMP are optional in slot)			
Display	4.3 inches Touch-screen			
Alarm	Low battery, abnormal AC input, UPS failure, etc.			
Protection	Low battery, overload, short-circuit and over temperature, etc.			
Noise (dB)	< 55			
Working Temperature (°C)	-5~40			
Relative Humidity	0 ~ 95%, no condensation			
Dimension (W×D×H)(mm)	UPS	438×500×130 (3U)		438×680×130 (3U)
	Cabinet	600×860×1200		
Weight (kg)	UPS	20		34
	Cabinet**	120		

\*S means 40Ah/50Ah lithium-ion battery module, L means 100Ah lithium-ion battery module, 04&08 means the max. number of modules to be installed.

\*\*Without built-in UPS and batteries.

## Technical parameters (Battery)

Battery	XRT-MTX-S3M050-4C-240-X	XRT-MTX-S3M100-1C-240-X
Battery rated voltage (V)	57.6	
Battery capacity (Ah)	50	100
Max. energy (kWh)	2.8	5.7
DC/DC rated output power (kW)	10	5
Dimensions (W*D*H) (mm)	223×665×153	440×665×132
Weight (kg)	38±2	50±2
Rated output voltage (V)	240/±240/480	
SOC accuracy	≥95%	

- Specifications are subject to change without notice;