

# REDON

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TECHNICAL DATA SHEET

# LITHIUM HOME SOLUTION SERIES

12.8V 100Ah | 25.6V 100Ah | 48V 100Ah | 51.2V 100Ah | 72V 100Ah | 96V 100Ah



# LiMax 12.8V 100Ah Battery Bank



Lightweight



High Energy Density



Long Life Cycle



Fast Charging



## TECHNICAL SPECIFICATIONS

### GENERAL SPECIFICATIONS

Battery Type	Lithium Iron Phosphate(LiFePO <sub>4</sub> )
Nominal Voltage	12.8V
Rated Capacity	100 Ah
Nominal Energy	1280 Wh

### KEY ADVANTAGES

- Lightweight
- High energy density
- Fast charging capability
- Longer cycle life
- Environment-friendly & non-toxic
- Stable performance at high temperature

### MECHANICAL SPECIFICATIONS

Dimension (mm):	
TYPE 1	190x142x380 / TYPE 2
Weight	Approx 15 kg±1kg
IP Rating:	IP65

### ENVIRONMENTAL & OPERATING CONDITIONS

Charge Temp	0 ~ 55°C
Discharge Temp	0 ~ 60°C
Humidity	<90% RH

### ELECTRICAL SPECIFICATIONS

Charge Voltage	14.6 V
Std. Charging Current	30 A
Max. Charging Current	50 A
Std. Discharging Current	50 A
Max. Discharging Current	100 A
Discharge Cut-off Voltage	10.8 V

### PERFORMANCE & LIFE

Cycle Life	≥ 3000 cycles @ 80% DoD
Design Life	8–10 years
Depth of Discharge (Recommended)	Up to 80–90%
Maintenance	Maintenance-free

### SAFETY & COMPLIANCE

Thermal Stability	Excellent (no thermal runaway)
Fire & Explosion Risk	Extremely low compared to lead-acid
Certifications (Option):	

### BUILT-IN SMART BMS PROTECTION

Built-in Smart BMS (UART-Bluetooth App)
Over/Under Voltage, Over Current, Short Circuit
Temperature Protection
Cell Balancing

# LiMax 12.8V 150Ah Battery Bank



Lightweight



High Energy Density



Long Life Cycle



Fast Charging



## TECHNICAL SPECIFICATIONS

### GENERAL SPECIFICATIONS

Battery Type	Lithium Iron Phosphate(LiFePO <sub>4</sub> )
Nominal Voltage	12.8V
Rated Capacity	150 Ah
Nominal Energy	1920 Wh

### ELECTRICAL SPECIFICATIONS

Charge Voltage	14.6 V
Std. Charging Current	30 A
Max. Charging Current	50 A
Std. Discharging Current	50 A
Max. Discharging Current	100 A
Discharge Cut-off Voltage	10.8 V

### BUILT-IN SMART BMS PROTECTION

Built-in Smart BMS (UART-Bluetooth App)

Over/Under Voltage, Over Current, Short Circuit

Temperature Protection

Cell Balancing

### ENVIRONMENTAL & OPERATING CONDITIONS

Charge Temp	0 ~ 55°C
Discharge Temp	0 ~ 60°C
Humidity	<90% RH

### MECHANICAL SPECIFICATIONS

Dimension (mm):

TYPE 1 190x142x380 / TYPE 2

Weight Approx 15 kg±1kg

IP Rating: IP65

### PERFORMANCE & LIFE

Cycle Life ≥ 3000 cycles @ 80% DoD

Design Life 8-10 years

Depth of Discharge (Recommended) Up to 80-90%

Maintenance Maintenance-free

### SAFETY & COMPLIANCE

Thermal Stability Excellent (no thermal runaway)

Fire & Explosion Risk Extremely low compared to lead-acid

Certifications (Option):

### KEY ADVANTAGES

Lightweight

High energy density

Fast charging capability

Longer cycle life

Environment-friendly & non-toxic

Stable performance at high temperature

# LiMax 12.8V 200Ah Battery Bank



Lightweight



High Energy Density



Long Life Cycle



Fast Charging



## TECHNICAL SPECIFICATIONS

### GENERAL SPECIFICATIONS

Battery Type	Lithium Iron Phosphate(LiFePO <sub>4</sub> )
Nominal Voltage	12.8V
Rated Capacity	200 Ah
Nominal Energy	2560 Wh

### ELECTRICAL SPECIFICATIONS

Charge Voltage	14.6 V
Std. Charging Current	30 A
Max. Charging Current	50 A
Std. Discharging Current	50 A
Max. Discharging Current	100 A
Discharge Cut-off Voltage	10.8 V

### BUILT-IN SMART BMS PROTECTION

Built-in Smart BMS (UART-Bluetooth App)

Over/Under Voltage, Over Current, Short Circuit

Temperature Protection

Cell Balancing

### ENVIRONMENTAL & OPERATING CONDITIONS

Charge Temp	0 ~ 55°C
Discharge Temp	0 ~ 60°C
Humidity	<90% RH

### MECHANICAL SPECIFICATIONS

Dimension (mm):

TYPE 1 197x155x285 / TYPE 2

Weight Approx 25 kg±1kg

IP Rating: IP65

### PERFORMANCE & LIFE

Cycle Life ≥ 3000 cycles @ 80% DoD

Design Life 8–10 years

Depth of Discharge (Recommended) Up to 80–90%

Maintenance Maintenance-free

### SAFETY & COMPLIANCE

Thermal Stability Excellent (no thermal runaway)

Fire & Explosion Risk Extremely low compared to lead-acid

Certifications (Option):

### KEY ADVANTAGES

Lightweight

High energy density

Fast charging capability

Longer cycle life

Environment-friendly & non-toxic

Stable performance at high temperature

# LiMax 25.6V 100Ah Battery Bank



Lightweight



High Energy Density



Long Life Cycle



Fast Charging



## TECHNICAL SPECIFICATIONS

### GENERAL SPECIFICATIONS

Battery Type	Lithium Iron Phosphate(LiFePO <sub>4</sub> )
Nominal Voltage	25.6V
Rated Capacity	100 Ah
Nominal Energy	2560 Wh

### ELECTRICAL SPECIFICATIONS

Charge Voltage	29.2 V
Std. Charging Current	30 A
Max. Charging Current	50 A
Std. Discharging Current	50 A
Max. Discharging Current	100 A
Discharge Cut-off Voltage	21.6 V

### BUILT-IN SMART BMS PROTECTION

Built-in Smart BMS (UART-Bluetooth App)

Over/Under Voltage, Over Current, Short Circuit

Temperature Protection

Cell Balancing

### ENVIRONMENTAL & OPERATING CONDITIONS

Charge Temp	0 ~ 55°C
Discharge Temp	0 ~ 60°C
Humidity	<90% RH

### MECHANICAL SPECIFICATIONS

Dimension (mm):

TYPE 1 197x155x285 / TYPE 2

Weight Approx 25 kg±1kg

IP Rating: IP65

### PERFORMANCE & LIFE

Cycle Life ≥ 3000 cycles @ 80% DoD

Design Life 8–10 years

Depth of Discharge (Recommended) Up to 80–90%

Maintenance Maintenance-free

### SAFETY & COMPLIANCE

Thermal Stability Excellent (no thermal runaway)

Fire & Explosion Risk Extremely low compared to lead-acid

Certifications (Option):

### KEY ADVANTAGES

Lightweight

High energy density

Fast charging capability

Longer cycle life

Environment-friendly & non-toxic

Stable performance at high temperature

# LiMax 25.6V 150Ah Battery Bank



Lightweight



High Energy Density



Long Life Cycle



Fast Charging



## TECHNICAL SPECIFICATIONS

### GENERAL SPECIFICATIONS

Battery Type	Lithium Iron Phosphate(LiFePO <sub>4</sub> )
Nominal Voltage	25.6V
Rated Capacity	150 Ah
Nominal Energy	3840 Wh

### ELECTRICAL SPECIFICATIONS

Charge Voltage	29.2 V
Std. Charging Current	30 A
Max. Charging Current	50 A
Std. Discharging Current	50 A
Max. Discharging Current	100 A
Discharge Cut-off Voltage	21.6 V

### BUILT-IN SMART BMS PROTECTION

Built-in Smart BMS (UART-Bluetooth App)

Over/Under Voltage, Over Current, Short Circuit

Temperature Protection

Cell Balancing

### ENVIRONMENTAL & OPERATING CONDITIONS

Charge Temp	0 ~ 55°C
Discharge Temp	0 ~ 60°C
Humidity	<90% RH

### MECHANICAL SPECIFICATIONS

Dimension (mm):

TYPE 1 197x155x285 / TYPE 2

Weight Approx 25 kg±1kg

IP Rating: IP65

### PERFORMANCE & LIFE

Cycle Life ≥ 3000 cycles @ 80% DoD

Design Life 8-10 years

Depth of Discharge (Recommended) Up to 80-90%

Maintenance Maintenance-free

### SAFETY & COMPLIANCE

Thermal Stability Excellent (no thermal runaway)

Fire & Explosion Risk Extremely low compared to lead-acid

Certifications (Option):

### KEY ADVANTAGES

Lightweight

High energy density

Fast charging capability

Longer cycle life

Environment-friendly & non-toxic

Stable performance at high temperature

# LiMax 25.6V 200Ah Battery Bank



Lightweight



High Energy Density



Long Life Cycle



Fast Charging



## TECHNICAL SPECIFICATIONS

### GENERAL SPECIFICATIONS

Battery Type	Lithium Iron Phosphate(LiFePO <sub>4</sub> )
Nominal Voltage	25.6V
Rated Capacity	200 Ah
Nominal Energy	5120 Wh

### ELECTRICAL SPECIFICATIONS

Charge Voltage	29.2 V
Std. Charging Current	30 A
Max. Charging Current	50 A
Std. Discharging Current	50 A
Max. Discharging Current	100 A
Discharge Cut-off Voltage	21.6 V

### BUILT-IN SMART BMS PROTECTION

Built-in Smart BMS (UART-Bluetooth App)

Over/Under Voltage, Over Current, Short Circuit

Temperature Protection

Cell Balancing

### ENVIRONMENTAL & OPERATING CONDITIONS

Charge Temp	0 ~ 55°C
Discharge Temp	0 ~ 60°C
Humidity	<90% RH

### MECHANICAL SPECIFICATIONS

Dimension (mm):

TYPE 1 374x173x570 / TYPE 2

Weight Approx 50 kg±1kg

IP Rating: IP65

### PERFORMANCE & LIFE

Cycle Life ≥ 3000 cycles @ 80% DoD

Design Life 8-10 years

Depth of Discharge (Recommended) Up to 80-90%

Maintenance Maintenance-free

### SAFETY & COMPLIANCE

Thermal Stability Excellent (no thermal runaway)

Fire & Explosion Risk Extremely low compared to lead-acid

Certifications (Option):

### KEY ADVANTAGES

Lightweight

High energy density

Fast charging capability

Longer cycle life

Environment-friendly & non-toxic

Stable performance at high temperature

# LiMax 48V 100Ah Battery Bank



Lightweight



High Energy Density



Long Life Cycle



Fast Charging



## TECHNICAL SPECIFICATIONS

### GENERAL SPECIFICATIONS

Battery Type	Lithium Iron Phosphate(LiFePO <sub>4</sub> )
Nominal Voltage	48V
Rated Capacity	100 Ah
Nominal Energy	4800 Wh

### ELECTRICAL SPECIFICATIONS

Charge Voltage	54.75 V
Std. Charging Current	30 A
Max. Charging Current	50 A
Std. Discharging Current	50 A
Max. Discharging Current	100 A
Discharge Cut-off Voltage	40.5 V

### BUILT-IN SMART BMS PROTECTION

Built-in Smart BMS (CAN, RS485, UART-Bluetooth App)
Over/Under Voltage, Over Current, Short Circuit
Temperature Protection
Cell Balancing

### ENVIRONMENTAL & OPERATING CONDITIONS

Charge Temp	0 ~ 55°C
Discharge Temp	0 ~ 60°C
Humidity	<90% RH

### MECHANICAL SPECIFICATIONS

Dimension (mm):	
TYPE 1	374x173x570 / TYPE 2
Weight	Approx 50 kg±1kg
IP Rating:	IP65

### PERFORMANCE & LIFE

Cycle Life	≥ 3000 cycles @ 80% DoD
Design Life	8-10 years
Depth of Discharge (Recommended)	Up to 80-90%
Maintenance	Maintenance-free

### SAFETY & COMPLIANCE

Thermal Stability	Excellent (no thermal runaway)
Fire & Explosion Risk	Extremely low compared to lead-acid

Certifications (Option):

### KEY ADVANTAGES

Lightweight
High energy density
Fast charging capability
Longer cycle life
Environment-friendly & non-toxic
Stable performance at high temperature

# LiMax 51.2V 100Ah Battery Bank



Lightweight



High Energy Density



Long Life Cycle



Fast Charging



## TECHNICAL SPECIFICATIONS

### GENERAL SPECIFICATIONS

Battery Type	Lithium Iron Phosphate(LiFePO <sub>4</sub> )
Nominal Voltage	51.2V
Rated Capacity	100 Ah
Nominal Energy	5120 Wh

### ELECTRICAL SPECIFICATIONS

Charge Voltage	58.4 V
Std. Charging Current	30 A
Max. Charging Current	50 A
Std. Discharging Current	50 A
Max. Discharging Current	100 A
Discharge Cut-off Voltage	43.2 V

### BUILT-IN SMART BMS PROTECTION

Built-in Smart BMS (CAN, RS485, UART-Bluetooth App)
Over/Under Voltage, Over Current, Short Circuit
Temperature Protection
Cell Balancing

### ENVIRONMENTAL & OPERATING CONDITIONS

Charge Temp	0 ~ 55°C
Discharge Temp	0 ~ 60°C
Humidity	<90% RH

### MECHANICAL SPECIFICATIONS

Dimension (mm):	
TYPE 1	416x300x281 / TYPE 2
Weight	Approx 55 kg±1kg
IP Rating:	IP65

### PERFORMANCE & LIFE

Cycle Life	≥ 3000 cycles @ 80% DoD
Design Life	8–10 years
Depth of Discharge (Recommended)	Up to 80–90%
Maintenance	Maintenance-free

### SAFETY & COMPLIANCE

Thermal Stability	Excellent (no thermal runaway)
Fire & Explosion Risk	Extremely low compared to lead-acid

Certifications (Option):

### KEY ADVANTAGES

Lightweight
High energy density
Fast charging capability
Longer cycle life
Environment-friendly & non-toxic
Stable performance at high temperature

# LiMax 72V 100Ah Battery Bank



Lightweight



High Energy Density



Long Life Cycle



Fast Charging



## TECHNICAL SPECIFICATIONS

### GENERAL SPECIFICATIONS

Battery Type	Lithium Iron Phosphate(LiFePO <sub>4</sub> )
Nominal Voltage	72V
Rated Capacity	100 Ah
Nominal Energy	7200 Wh

### MECHANICAL SPECIFICATIONS

Dimension (mm):	
TYPE 1	380x306x500 / TYPE 2
Weight	Approx 75 kg±1kg
IP Rating:	IP65

### ELECTRICAL SPECIFICATIONS

Charge Voltage	83.95 V
Std. Charging Current	30 A
Max. Charging Current	50 A
Std. Discharging Current	50 A
Max. Discharging Current	100 A
Discharge Cut-off Voltage	62.1 V

### PERFORMANCE & LIFE

Cycle Life	≥ 3000 cycles @ 80% DoD
Design Life	8–10 years
Depth of Discharge (Recommended)	Up to 80–90%
Maintenance	Maintenance-free

### BUILT-IN SMART BMS PROTECTION

Built-in Smart BMS up to 16 battery's connected parallel (CAN, RS485, UART-Bluetooth App)	
Over/Under Voltage, Over Current, Short Circuit	
Temperature Protection	
Cell Balancing	

### SAFETY & COMPLIANCE

Thermal Stability	Excellent (no thermal runaway)
Fire & Explosion Risk	Extremely low compared to lead-acid

Certifications (Option):

### ENVIRONMENTAL & OPERATING CONDITIONS

Charge Temp	0 ~ 55°C
Discharge Temp	0 ~ 60°C
Humidity	<90% RH

### KEY ADVANTAGES

Lightweight
High energy density
Fast charging capability
Longer cycle life
Environment-friendly & non-toxic
Stable performance at high temperature

# LiMax 96V 100Ah Battery Bank



Lightweight



High Energy Density



Long Life Cycle



Fast Charging



## TECHNICAL SPECIFICATIONS

### GENERAL SPECIFICATIONS

Battery Type	Lithium Iron Phosphate(LiFePO <sub>4</sub> )
Nominal Voltage	96V
Rated Capacity	100 Ah
Nominal Energy	9600 Wh

### ELECTRICAL SPECIFICATIONS

Charge Voltage	109.5 V
Std. Charging Current	30 A
Max. Charging Current	50 A
Std. Discharging Current	50 A
Max. Discharging Current	100 A
Discharge Cut-off Voltage	81 V

### BUILT-IN SMART BMS PROTECTION

Built-in Smart BMS up to 16 battery's connected parallel (CAN, RS485, UART-Bluetooth App)

Over/Under Voltage, Over Current, Short Circuit

Temperature Protection

Cell Balancing

### ENVIRONMENTAL & OPERATING CONDITIONS

Charge Temp	0 ~ 55°C
Discharge Temp	0 ~ 60°C
Humidity	<90% RH

### MECHANICAL SPECIFICATIONS

Dimension (mm):

TYPE 1	430x437x262 / TYPE 2
Weight	Approx 100 kg±1kg
IP Rating:	IP65

### PERFORMANCE & LIFE

Cycle Life	≥ 3000 cycles @ 80% DoD
Design Life	8-10 years
Depth of Discharge (Recommended)	Up to 80-90%
Maintenance	Maintenance-free

### SAFETY & COMPLIANCE

Thermal Stability	Excellent (no thermal runaway)
Fire & Explosion Risk	Extremely low compared to lead-acid

Certifications (Option):

### KEY ADVANTAGES

Lightweight

High energy density

Fast charging capability

Longer cycle life

Environment-friendly & non-toxic

Stable performance at high temperature

# LiMax 51.2V 100Ah to 1600Ah Battery Bank



Lightweight



High Energy Density



Long Life Cycle



Fast Charging



## TECHNICAL SPECIFICATIONS

### GENERAL SPECIFICATIONS

Battery Type	Lithium Iron Phosphate(LiFePO <sub>4</sub> )
Nominal Voltage	51.2V
Rated Capacity	100 Ah
Nominal Energy	5120 Wh

### ELECTRICAL SPECIFICATIONS

Charge Voltage	58.4 V
Std. Charging Current	30 A
Max. Charging Current	50 A
Std. Discharging Current	50 A
Max. Discharging Current	100 A
Discharge Cut-off Voltage	43.2 V

### BUILT-IN SMART BMS PROTECTION

Built-in Smart BMS up to 16 battery's connected parallel (CAN, RS485, UART-Bluetooth App)

Over/Under Voltage, Over Current, Short Circuit

Temperature Protection

Cell Balancing

### ENVIRONMENTAL & OPERATING CONDITIONS

Charge Temp	0 ~ 55°C
Discharge Temp	0 ~ 60°C
Humidity	<90% RH

### MECHANICAL SPECIFICATIONS

Dimension (mm):

TYPE 1 416x300x281 / TYPE 2

Weight Approx 55 kg±1kg

IP Rating: IP65

### PERFORMANCE & LIFE

Cycle Life ≥ 3000 cycles @ 80% DoD

Design Life 8-10 years

Depth of Discharge (Recommended) Up to 80-90%

Maintenance Maintenance-free

### SAFETY & COMPLIANCE

Thermal Stability Excellent (no thermal runaway)

Fire & Explosion Risk Extremely low compared to lead-acid

Certifications (Option):

### KEY ADVANTAGES

Lightweight

High energy density

Fast charging capability

Longer cycle life

Environment-friendly & non-toxic

Stable performance at high temperature



# REDON

Incredible power within

**LIFE DOESN'T PAUSE, NEITHER SHOULD YOUR POWER**

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