

PRODUCT CATALOGUE



# INTRODUCTION

MTM Traders is a vital and forward-looking division of ACM Group of Industries, playing a key role in the company's mission to power progress through innovation. Specializing in the trading of premium-quality solar panels, inverters, and UPS systems, MTM Traders has earned a reputation for delivering reliable, energy-efficient solutions across Pakistan. Now, stepping into the future, MTM Traders proudly introduces cutting-edge Lithium-lon Phosphate (LiFePO<sub>4</sub>) batteries to the Pakistani market.

# **OVERVIEW**

Lithium-lon Phosphate batteries represent a major breakthrough in modern battery technology. As a standout member of the lithium battery family, LiFePO<sub>4</sub> batteries are globally recognized for their unmatched safety, extended lifespan, and superior performance. Their stable chemical structure reduces the risk of overheating and combustion, making them a safer alternative for both residential and industrial applications. With longer cycle life, higher thermal stability, and rapid charging capabilities, LiFePO<sub>4</sub> batteries are revolutionizing energy storage solutions—powering the future of solar, EV, and backup power systems around the world.









# **SG-LFP48100W**

51.2V100AH Wall Mount

#### **Product Features:**

- Built-in intelligent BMS with charge/discharge current limitations
- Automatic protection for overcharge/discharge and temperature conditions
- Compatible with standard rectifiers/ inverters/UPS
- High reliability design
- Excellent battery life

## **Product Application:**











Nomadic area



**General Specification** SG-LFP48100W Model Nominal Voltage 51.2V **Nominal Capacity** 100Ah **Battery Energy** 5120Wh Charge Voltage 57.6~58.4V Discharge Voltage 43.2 V Nominal Charge/Discharge Current 50A (0.5C) Nominal Charge/Discharge Power 2560W Max Charge/Discharge Current 100A (1C) Max Charge/Discharge Power 5120W

Communication

Display SOC status indicator. LED

indicator

Communication **RS485. CAN** 

**General Specification** 

Dimension (WxDxH mm) 520 x 141.5 x 470 (mm)

Weight (Kg) 47kg Approx. Installation Wall Mounted Charge Temperature 0°C ~ 55°C Discharge Temperature -20°C ~ 60°C Storage Temperature -20°C ~ 60°C Operating/Storage/humidity 5% - 95%RH Max Operating Altitude <4000m

IP Rating **IP65** 

Cell Type LiFePO<sub>4</sub>, Lithium Iron Phosphate Cycle life 6000 Cycles @ 80% DOD /

25°C / 0.5C

**Cell Configuration** 1P16S

Scalability Max 15 batteries in parallel





A powerful smart rechargeable LiFePO4 intelligent energy storage unit, especially designed to provide Power Backup for Telecom Sites, IT/Data Centers and Solar Energy Storage Systems. Its design enables parallel installation to meet extended power backups.





# **SG-LFP48100R**

48V100AH Rack Mount

#### **Product Features:**

- Built-in intelligent BMS with charge/ discharge current limitations
- Automatic protection for overcharge/ discharge and temperature conditions
- Compatible with standard rectifiers/inverters/ UPS
- High reliability design
- · Excellent battery life

## **Product Application:**









Solar Other pow Power supply

**Specifications** SG-LFP48100R **Battery Model Nominal Capacity** 100Ah Nominal Voltage 48V **Battery Energy** 4800Wh Charge Voltage 54V Discharge Voltage 40.5V Nominal Charge/Discharge Current 50A Nominal Charge/Discharge Power 2400W Max Charge / Discharge Current 100A Max Charge / Discharge Power 4800W

Communication

Display SOC status indicator, LED

indicator

Communication RS485, CAN

**General Specification** 

Dimension( W×D×H mm) 440 x 440 x 133 (mm)

 $\begin{tabular}{lll} Weight (Kg) & 46kg Approx. \\ Installation & Rack Mounted \\ Charge Temperature & 0°C ~ 55°C \\ Discharge Temperature & -20°C ~ 60°C \\ Storage Temperature & -20°C ~ 60°C \\ Operating/Storage/humidity & 5% - 95%RH \\ Max Operating Altitude & \leq 4000m \\ \end{tabular}$ 

IP Rating IP20

Cell Type LiFePO<sub>4</sub>,Lithium Iron Phosphate

Cycle life 6000 Cycles @ 80% DOD /

25°C /0.5C

Cell Configuration 1P15S

Scalability Max 15 batteries in parallel







# **SG-LFP24100W**

25.6V100AH Wall Mount

#### **Product Features:**

- Built-in intelligent BMS with charge/discharge current limitations
- Automatic protection for overcharge/discharge and temperature conditions
- Compatible with standard rectifiers/ inverters/UPS
- High reliability design
- Excellent battery life

## **Product Application:**











Communication



base station

Field power supply



Discharge Voltage 29.2V

Nominal Charge/Discharge Current 50A (0.5C)

Nominal Charge/Discharge Power 1280W

Max Charge/Discharge Current 100A (1C)

Max Charge/Discharge Power 2560W

Communication

Display Touch Screen LCD display Communication RS485, CAN, Bluetooth

**General Specification** 

Dimension (WxDxH mm) 150 X 395 X 587 (mm)

Weight (Kg)

Installation

Charge Temperature

Discharge Temperature

Storage Temperature

O°C ~ 55°C

-20°C ~ 60°C

-20°C ~ 60°C

Operating/Storage/humidity

Max Operating Altitude

28kg Approx.

Wall Mounted

5°C ~ 55°C

-20°C ~ 60°C

5% - 95%RH

<4000m

IP Rating IP20

Cell Type LiFePO<sub>4</sub>, Lithium Iron Phosphate Cycle life 6000 Cycles @ 80% DOD /

25°C / 0.5C

Cell Configuration 1P8S

Scalability Max 16 batteries in parallel







## **SG-LFP25100**

25.6V100AH

#### **Product Features:**

- LiFePO<sub>4</sub> cell (3.2V) higher reliability
- Longer Cycle Life
- Fully replaceable with current batteries (Lead-acid, Ni-Cd)
- Lithium iron phosphate technology, safe and reliable.
- Maintenance free with 50% lighter than lead acid batteries
- Optimum adaptation to variety of applications with series & parallel expansion support

## **Product Application:**











Base





ic Other pow le supply



Nominal Voltage 25.6V

Nominal Capacity (@0.2C)100Ah (8S1P)Nominal Energy2560WhInternal Resistance50mΩ

Self Discharge Rate ≤3.5% per month Cycle Life (@20-28°C, 0.2C, 50% DOD) 6000 Cycles

Parallel Connected Function No more than 2 groups in parallel Series Connected Function No more than 2 groups in series

**Charging Specifications** 

Charging Limited Voltage/Float 28.8V/27.6V±0.2V

Charge Voltage (For Standby use)

Max. Charging Current 60A

**Discharging Specifications** 

Discharging Cut-off Voltage 20.0V
Max. Discharging Continuous Current 60A
Max. Discharging Pulse Current 120A, <3S

**Mechanical Characteristics** 

Length532mmWidth206mmHeight215mmTotal Height217mm

Weight Approx. 24.0Kg

Terminal M8

**Operating Conditions** 

Charge Temperature

O°C~45°C (32°F to 113°F)

Discharge Temperature

-20°C to 60°C (-4°F to 140°F)

Storage Temperature

O°C to 45°C (32°F to 113°F)

Humidity

O-95%, No condensation

Temperature protection

Integrated in BMS

I emperature protection Integrated in BMS
Safety Standard IEC 62619 at cell level

Water Dust Resistance IP55







## **SG-LFP12200**

12.8V200AH

#### **Product Features:**

- LiFePO<sub>4</sub> cell (3.2V), higher reliability
- Longer Cycle Life
- Fully replaceable with current batteries (Lead-acid, Ni-Cd)
- Lithium iron phosphate technology, safe and reliable.
- Maintenance free with 50% lighter than lead acid batteries
- Optimum adaptation to variety of applications with series & parallel expansion support

## **Product Application:**













Station



**Nominal Characteristics** 

Nominal Voltage 12.8V

**Nominal Capacity** 200Ah (4S2P) **Nominal Energy** 2560Wh Internal Resistance  $<35m\Omega$ 

Self Discharge Rate <3.5% per month Cycle Life (@25°C, 0.2C, 50%DOD) 6000 Cycles

Parallel Connected Function no more than 4 groups Series Connected Function no more than 4 groups

## **Charging Specifications**

Recommended Charging Voltage 14.0~14.6V Max. Charging Current 100A

## **Discharging Specification**

Discharging Cut-off Voltage 10V Max. Discharging Continuous Current 100A Max. Discharging Pulse Current 200 A≦3S

#### **Mechanical Characteristics**

Length 522mm Width 238mm Height 218mm **Total Height** 220mm Weight Approx. 27Kg

**Terminal** M8

## **Operating Conditions**

0°C ~ 45°C (32°F ~ 113°F) **Charging Temperature** -20°C ~ 60°C (-4°F ~ 140°F) Discharge Temperature 0°C ~ 45°C (32°F ~ 113°F) Storage Temperature Safety Standard UL 1642 at cell level IP55

Water Dust Resistance







## **SG-LFP12150**

12.8V150AH

#### **Product Features:**

- LiFePO, cell (3.2V) higher reliability
- Longer Cycle Life
- Fully replaceable with current batteries (Lead-acid, Ni-Cd)
- Lithium iron phosphate technology, safe and reliable.
- Maintenance free with 50% lighter than lead acid batteries
- Optimum adaptation to variety of applications with series & parallel expansion support

## **Product Application:**



Station



Vehicle

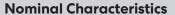












Nominal Voltage 12.8V

**Nominal Capacity** 150Ah (4S1P) **Nominal Energy** 1920Wh Internal Resistance  $<45 \text{m}\,\Omega$ 

Self Discharge Rate <3.5% per month Cycle Life (@25°C, 0.2C, 50% DOD) 6000 Cycles

Parallel Connected Function no more than 2 groups Series Connected Function no more than 4 groups

**Charging Specifications** 

Recommended Charging Voltage 14.0~14.6V

Max. Charging Current 75A

**Discharging Specification** 

Discharging Cut-off Voltage 10V Max. Discharging Continuous Current 100A Max. Discharging Pulse Current 200 A≦3S

**Mechanical Characteristics** 

Length 483mm Width 170mm Height 240mm **Total Height** 240mm

Weight Approx. 19.2Kg

**Terminal** M8

**Operating Conditions** 

**Charging Temperature** 0°C ~ 45°C (32°F ~ 113°F) -20°C ~ 60°C (-4°F ~ 140°F) Discharge Temperature 0°C ~ 45°C (32°F ~ 113°F) Storage Temperature Safety Standard UL 1642 at cell level

Water Dust Resistance IP55





# **SG-LFP12100**

12.8V100AH

#### **Product Features:**

- LiFePO, cell (3.2V) higher reliability
- Longer Cycle Life
- Fully replaceable with current batteries (Lead-acid, Ni-Cd)
- Lithium iron phosphate technology, safe and reliable.
- Maintenance free with 50% lighter than lead acid batteries
- Optimum adaptation to variety of applications with series & parallel expansion support

## **Product Application:**













Station





**Nominal Characteristics** 

Nominal Voltage 12.8V

**Nominal Capacity** 100Ah (4S1P) **Nominal Energy** 1280Wh Internal Resistance  $<45 \text{m}\Omega$ 

Self Discharge Rate <3.5% per month Cycle Life (@25°C, 0.2C, 50%DOD) 6000 Cycles

Parallel Connected Function no more than 4 groups Series Connected Function no more than 4 groups

**Charging Specifications** 

Recommended Charging Voltage 14.0~14.6V Max. Charging Current 50A

**Discharging Specification** 

Discharging Cut-off Voltage 10V Max. Discharging Continuous Current 100A Max. Discharging Pulse Current 200 A≦3S

**Mechanical Characteristics** 

Length 328mm Width 172mm Height 215mm **Total Height** 220mm

Weight Approx. 13.1Kg

**Terminal** M8

**Operating Conditions** 

**Charging Temperature** 0°C ~ 45°C (32°F ~ 113°F) Discharge Temperature -20°C ~ 60°C (-4°F ~ 140°F) Storage Temperature 0°C ~ 45°C (32°F ~ 113°F) Safety Standard UL 1642 at cell level

Water Dust Resistance IP55





# **SG-LFP1260**

12.8V60AH

#### **Product Features:**

- LiFePO<sub>4</sub> cell (3.2V) higher reliability
- Longer Cycle Life
- Fully replaceable with current batteries (Lead-acid, Ni-Cd)
- Lithium iron phosphate technology, safe and reliable.
- Maintenance free with 50% lighter than lead acid batteries
- Optimum adaptation to variety of applications with series & parallel expansion support

## **Product Application:**













Station



#### **Nominal Characteristics**

Nominal Voltage 12.8V

**Nominal Capacity** 60Ah (4S2P) **Nominal Energy** 768Wh Internal Resistance  $<50 m \Omega$ 

Self Discharge Rate <3.5% per month Cycle Life (@25°C, 0.2C, 50% DOD) 6000 Cycles

Parallel Connected Function no more than 2 groups Series Connected Function no more than 4 groups

## **Charging Specifications**

Recommended Charging Voltage 14.0~14.6V Max. Charging Current 30A

## **Discharging Specification**

10V Discharging Cut-off Voltage Max. Discharging Continuous Current 60A Max. Discharging Pulse Current 120 A ≦ 3S

#### **Mechanical Characteristics**

Length 229mm Width 138mm Height 210mm **Total Height** 210mm

Weight Approx. 6.7Kg

M6 Terminal

## **Operating Conditions**

0°C ~ 45°C (32°F ~ 113°F) **Charging Temperature** Discharge Temperature -20°C ~ 60°C (-4°F ~ 140°F) Storage Temperature 0°C ~ 45°C (32°F ~ 113°F) Safety Standard UL 1642 at cell level

Water Dust Resistance IP55



Scan for E-Brochure



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MARKETED BY



House # 2, Street # 63, Sector F-8/4, Islamabad - Pakistan.

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Tel: +92-51-111-22-00-22



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