

# WT48100

## Smart Energy Storage Battery



wirentech

The intelligent unit is specially designed for telecom power system to implement multiple intelligent features. The unit features different charging voltages adaptability, fast charging and long service life. It can be directly connected to lead-acid battery strings in parallel to reuse batteries.

### contact details

+86-755-23251510  
 office@wirentech.com  
 www.wirentech.com  
 No.602, Block C, Innovation Plaza, No.2007,  
 Pingshan Avenue, Pingshan District, Shenzhen, China.

**Safety Certified via:**  
 UN38.3, CE, MSDS

**Energy**  
 48V 100Ah  
 (4.8KWh)

**Weight**  
 48KG

**Built-in BMS**  
 100A

#### ★ SAFE TO USE

Lithium Iron Phosphate (LiFePO4) Battery, Long Service Time and Safety

#### ★ CAPITAL SAVINGS

Capex Saving by Paralleling Smart Battery with Previously Installed Traditional Lithium Battery or Lead Acid Battery

#### ★ REDUCED LOSSES

Opex Saving by Operating in Boost Mode to Reduce Power

#### ★ BUILT-IN BMS

Built-in BMS to Prevent Overcharge/Over-discharge/Short-circuit/etc

#### ★ FREE MAINTENANCE

Free Cooling and Free Maintenance

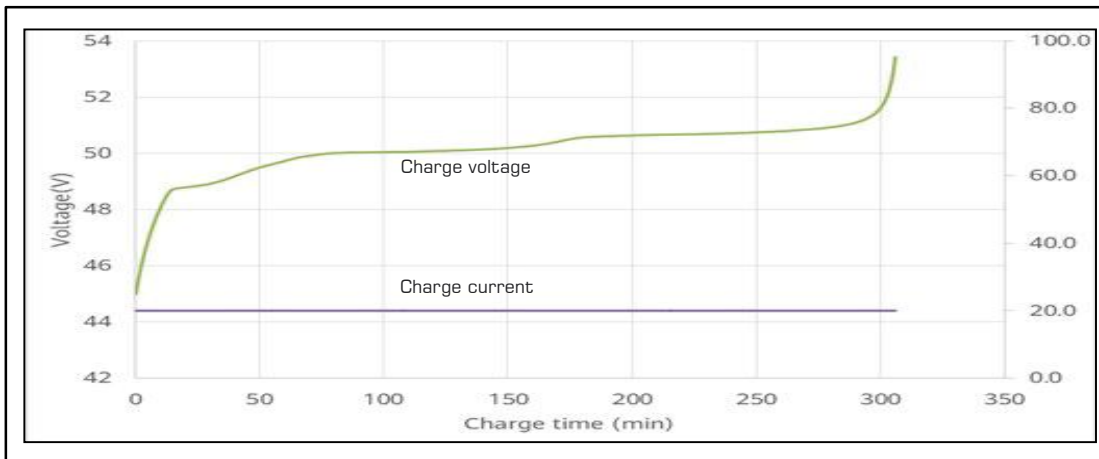


## SPECIFICATIONS

Basic Parameters		WT48100
Battery Type		LiFePO4
Nominal Voltage		48V
Nominal Capacity		100Ah
Nominal Energy		4.8kWh
Charge Procedure		CC/CV
Limited Charge Voltage		54V
Rated Charge Current		50A
Max Continuous Charge Current		100A
Rated Discharge Current		50A
Max Continuous Discharge Current		100A
Charging Mode		
Input Voltage		42~54V
Charging Voltage		40~54V
Charging Current		10~100A

Discharging Mode	
Discharging Voltage	42~54V
Output Voltage (Buck)	40~58.4V
Output Voltage (Boost)	48~57V
Discharging Current	10~100A
Conversion Efficiency	98%
Mode Transfer Time	10ms
Communication	CAN,RS485
Dimension	W482.6*H130*D400mm
Weight	48kg Approx.
Scalability	Upto16in Parallel
Cooling Strategy	Free Cooling
Protection	Overcharge,over-discharge,over-current,overheating,short-circuit
Terminal Type	Special Quick Lockconnector
Additional Functions	LCD Screen (Optional)
Cycle Life	2000
Operation Temperature	Charge:-10~+50°C Discharge:-20~+55°C
Storage Temperature	≤1month:-20~+35°C ≤3months:-20~+30°C ≤1year:-20~+25°C
Protection Rate	IP21

**CHARGE CURVE @ 0.2C, 35°C**



**DISCHARGE PERFORMANCE @ DIFFERENT DISCHARGE RATE @ 35°C**

