



RACK MOUNTED LI-ION BATTERY

48V



SAFETY

- + Prismatic LiFePO₄ cells, Longer cycle life and much more safety.
- + Low voltage system, safety for application.
- + IEC62619, UL1642, UN38.3 certification for cell.
- + UN38.3 certification for system.



DESIGN

- + Standard 19" rack design.
- + Flexible and easily installation.
- + -20~+55°C widely temperature range.
- + Maintenance free.



SCALABILITY

- + Parallel support for more energy.
- + Optional accessories for LCD display, MCB, GPS Anti-theft.



BATTERY MANAGEMENT SYSTEM

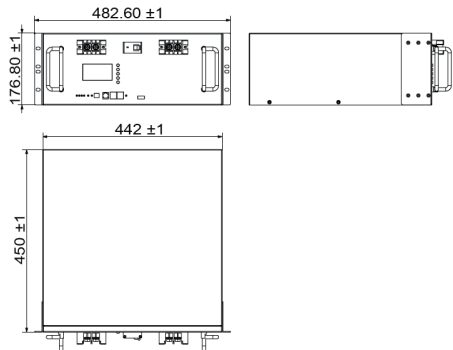
- + Independent protection for charge and discharge.
- + SOC, SOH display and PC software for detailed operation.
- + OVP, LVP, OCP, OTP, LTP protection.
- + RS232, RS485, CAN communication port.

LI-ion - 48100T (48V 100Ah)

- Intra-system balancing
- Flame retardant system to UL94V-0
- Good high temperature performance
- High cycle times and long service life
- Safe Lithium Iron Phosphate Technology
- Thousands of cycles, under normal conditions
- High energy density and conversion efficiency
- Environmental Friendly, without any heavy metals
- Complete with Battery Management System built-in
- Can use most standard VRLA chargers for this system
- Low self discharge rate of 2 years before required recharging
- Easy installation, can be in 19-inch standard cabinet or be wall-mounted
- Built-in automatic protection for over-charge, over-discharge & over-temperature conditions



Dimensions-mm



Characteristic

Item	Specification	
Model	LI-ion - 48100TA	LI-ion - 48100TB
Rated Capacity (5HR)	100 Ah	100 Ah
Nominal Voltage	48.0 V	48.0 V
Discharge Ending Voltage	40.5 V	40.5V
Charging Limited Voltage	54.0 V	54.0 V
Max. Charging Current	100 A	100 A
Max. Continue Discharging Current	100 A	100 A
Weight	Approx. 43 Kg	Approx. 43 Kg
Display	Without display screen	With a LCD display screen
Parallel Connection	Parallel connection up to 16P	
Dimensions (W*D*H) mm (inches)	442 (17.40") * 450 (17.72") * 177.5 (6.99")	
Cell	48V 100Ah cell module	
Design life	More than 15 years	
Cycle Life	12000 cycles at 50% DOD; 8000 cycles at 80% DOD; >6000 cycles at 100% DOD;	
IP Class	IP30	
Outer Package Material	Black bake lacquer steel case (battery rack or cabinet is optional)	
Operating Temperature	Charging: 0 to +55℃ Discharging: -20 to +60℃ Storage: -20 to +60℃	

Discharge Table

Constant Current Discharge Table (Amperes) at 25℃						
Model	Voltage \ Time	1 h	2 h	3 h	5 h	10 h
LI-ion - 48100T	End of discharge voltage 40.5 V	95A	49 A	33 A	20 A	10 A

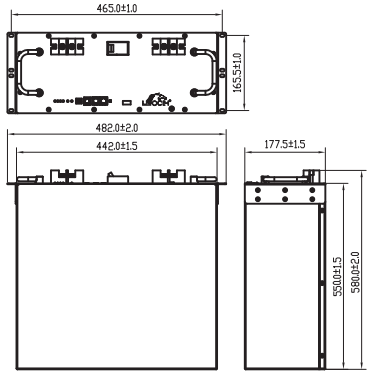
Constant Power Discharge Table (Watts) at 25℃						
Model	Voltage \ Time	1 h	2 h	3 h	5 h	10 h
LI-ion - 48100T	End of discharge voltage 40.5 V	4460W	2295 W	1550 W	940 W	475W

LI-ion - 48150T (48V 150Ah)

- Intra-system balancing
- Flame retardant system to UL94V-0
- Good high temperature performance
- High cycle times and long service life
- Safe Lithium Iron Phosphate Technology
- Thousands of cycles, under normal conditions
- High energy density and conversion efficiency
- Environmental Friendly, without any heavy metals
- Complete with Battery Management System built-in
- Can use most standard VRLA chargers for this system
- Low self discharge rate of 2 years before required recharging
- Easy installation, can be in 19-inch standard cabinet or be wall-mounted
- Built-in automatic protection for over-charge, over-discharge & over-temperature conditions



Dimensions-mm



Characteristic

Item	Specification	
Model	LI-ion - 48150TA	LI-ion - 48150TB
Rated Capacity (5HR)	150 AH	150 AH
Nominal Voltage	48.0 V	48.0 V
Discharge Ending Voltage	40.5 V	40.5 V
Charging Limited Voltage	54.0 V	54.0 V
Max. Charging Current	100 A	100 A
Max. Continue Discharging Current	100 A	100 A
Weight	Approx. 62 Kg	Approx. 62 Kg
Display	Without a display screen	With a LCD display screen
Parallel Connection	Parallel connection is optional (up to 16P).	
Dimensions (W*D*H) mm (inches)	442 (17.40") * 550 (21.65") * 177 (6.97")	
Cell Type	3.2V 150AH & Prismatic cell	
Design life	More than 15 years	
Cycle Life	12000 cycles at 50% DOD; 8000 cycles at 80% DOD; >6000 cycles at 100% DOD;	
IP Class	IP30	
Safety Certificate	UL 1973 at cell level	
Operating Temperature	Charging: 0 to +55℃ Discharging: -20 to +60℃ Storage: -20 to +60℃	

Discharge Table

Constant Current Discharge Table (Amperes) at 25℃						
Model	Voltage \ Time	1.5 h	3 h	5 h	7.5 h	10 h
LI-ion - 48150TA	End of discharge voltage 40.5 V	95A	50 A	30 A	20 A	15 A
LI-ion - 48150TB	End of discharge voltage 40.5 V	95A	50 A	30 A	20 A	15 A

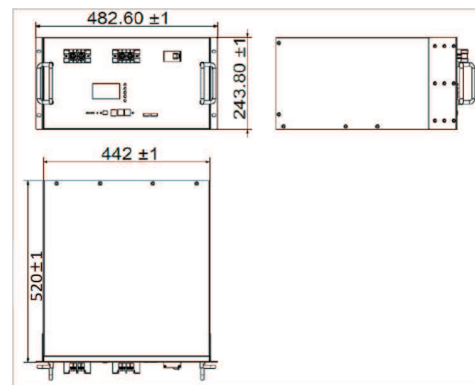
Constant Power Discharge Table (Watts) at 25℃						
Model	Voltage \ Time	1.5 h	3 h	5 h	7.5 h	10 h
LI-ion - 48150TA	End of discharge voltage 40.5 V	4460W	2400 W	1440 W	940 W	720W
LI-ion - 48150TB	End of discharge voltage 40.5 V	4460W	2400 W	1440 W	940 W	720W

LI-ion - 48200T (48V 200Ah)

- Intra-system balancing
- Flame retardant system to UL94V-0
- Good high temperature performance
- High cycle times and long service life
- Safe Lithium Iron Phosphate Technology
- Thousands of cycles, under normal conditions
- High energy density and conversion efficiency
- Environmental Friendly, without any heavy metals
- Complete with Battery Management System built-in
- Can use most standard VRLA chargers for this system
- Low self discharge rate of 2 years before required recharging
- Easy installation, can be in 19-inch standard cabinet or be wall-mounted
- Built-in automatic protection for over-charge, over-discharge & over-temperature conditions



Dimensions-mm



Characteristic

Item	Specification	
Model	LI-ion - 48200TA	LI-ion - 48200TB
Rated Capacity (5HR)	200 AH	200AH
Nominal Voltage	48 V	48 V
Discharge Ending Voltage	40.5 V	40.5 V
Charging Limited Voltage	54.0 V	54.0 V
Max. Charging Current	100 A	100 A
Max. Continue Discharging Current	100 A	100 A
Weight	Approx. 82 Kg	Approx. 82 Kg
Display	Without a display screen	With a LCD display screen
Parallel connection	Parallel connection up to 16P	
Dimensions (L*W*H) mm (inches)	442 (17.40") * 520 (20.47") * 243.8 (9.61")	
Containing Cell	3.2V, 200AH Prismatic Lithium Iron Phosphate cells.	
Design life	More than 15 years	
Cycle Life	12000 cycles at 50% DOD; 8000 cycles at 80% DOD; >6000 cycles at 100% DOD;	
IP Class	IP30	
Outer Package Material	Black bake lacquer steel case (battery rack or cabinet is optional)	
Operating Temperature	Charging: 0 to +55℃ Discharging: -20 to +60℃ Storage: -20 to +60℃	

Discharge Table

Constant Current Discharge Table (Amperes) at 25 °C						
Model	Voltage \ Time	1 h	2 h	3 h	5 h	10 h
LI-ion - 48200TA	End of discharge voltage 40.5 V	NA	100A	67 A	40 A	20 A
LI-ion - 48200TB	End of discharge voltage 40.5 V	NA	100A	67 A	40 A	20 A

Constant Power Discharge Table (Watts) at 25 °C						
Model	Voltage \ Time	1 h	2 h	3 h	5 h	10 h
LI-ion - 48200TA	End of discharge voltage 40.5 V	NA	4800 W	3216 W	1920 W	960 W
LI-ion - 48200TB	End of discharge voltage 40.5 V	NA	4800 W	3216 W	1920 W	960 W