

CH48100(48V100 Ah 4U) Power Pack Specification

Characteristic	
Nominal voltage(V)	51.2 V
Nominal capacity(Ah)	100 Ah
Discharging cut-off voltage(V)	40.5V
Equalized charging Voltage	52.5V~54.0V
Floating Charging Voltage	51.0V~51.75V
Standard charging current(A)	20 A
Max charging current(A)	100 A
Standard discharging current(A)	20 A
Max discharging current(A)	100 A
BMS power consumption(W)	<1.5W
Design life	More than 10 years
Cycle life	More than 3000 cycles at 80% DOD
Dimensions & Weight	
Dimension(mm)	442×177.5×431.2 (W×H×D)
System weight(kg)	47
Environment	
Operation thermal ambient(°C)	Charge: 0°C~55°C Discharge: -20°C~60°C
Storage temp	<1month:-20°C~45°C <3month:-20°C~40°C <1year: -20°C~25°C
Storage humidity	<80%
Protection grade	IP30
Protection	
Over-current protection	YES
Over-voltage protection	YES
Under-voltage protection	YES
Over-temperature protect	YES
Short-circuit protection	YES



Figure 1 Global View of the Battery

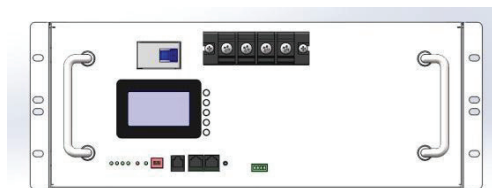


Figure 2 Front View of the Battery

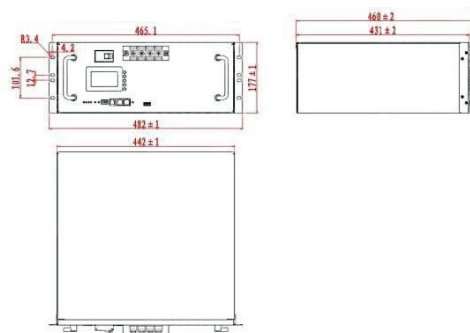



Figure 3 Battery Size-mm



Other optional functions & spare parts	
<ul style="list-style-type: none"> ◆ Data Storage and Current Limit function(20A) (Optional) ◆ Parallel connection is optional (up to 15P). ◆ Battery rack or cabinet is optional ◆ LCD display screen is optional 	
Applications	
<p>This product applies to telecom power back-up system or telecom integrative power supply system and other applications which meet electric input & output parameters.</p>	

Discharge Table

Constant Current Discharge Table(Amperes) at 25 °C							
Model	Voltage	Time	1h	2h	3h	5h	10h
CH48100	End of discharge voltage 40.5V		95A	49A	33A	20A	10A

Constant Current Discharge Table(Watts) at 25 °C							
Model	Voltage	Time	1h	2h	3h	5h	10h
CH48100	End of discharge voltage 40.5V		4757W	2378W	1585W	1188W	475W

- CH48100 pack use safe lithium iron phosphate technology with the advantages of high cycles and long service life, good high temperature performance, high energy density and conversion efficiency.
- CH48100 pack use automatic protection for over-charge, over-discharge & over-temperature conditions.
- CH48100 pack built in Battery Management System.
- CH48100 pack belongs to environmental friendly product.
- CH48100 Iron Phosphate battery series could be used for Energy Storage System.
- CH48100 packs could be in a modular design that allows the flexibility. Easy installation, can be in 19-inch standard cabinet or be wall-mounted.
- CH48100 pack are able to meet the requirements of different storage systems by increasing the capacity through parallel connection of battery rack.



Modularity



Scalability

