

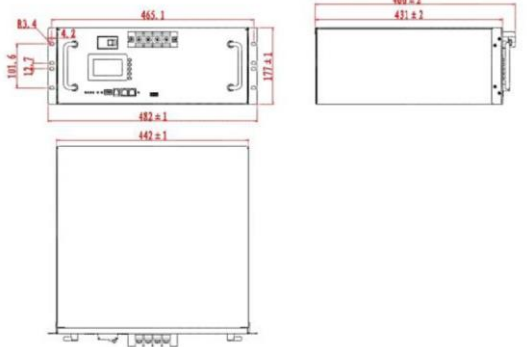



## CH48100 (48V100 Ah 4U) Power Pack Specification

Characteristic		Diagrams
Nominal voltage (V)	48 V	 <p><b>Figure 1: Global View of the Battery</b></p>  <p><b>Figure 2: Front View of the Battery</b></p>  <p><b>Figure 3: Battery Size (mm)</b></p>
Nominal capacity (Ah)	100 Ah	
Discharging cut-off voltage (V)	40.5 V	
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 20 years	
Cycle life	More than 3500 cycles at 100% 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 protection	YES	
Short-circuit protection	YES	

<b>Other optional functions &amp; spare parts</b> <ul style="list-style-type: none"> <li>• Data Storage and Current Limit function (20A) (Optional)</li> <li>• Parallel connection is optional (up to 15P)</li> <li>• Battery rack or cabinet is optional</li> <li>• LCD display screen is optional</li> </ul>	<b>Diagrams</b>   CE-EMC    IEC62619    ISO14001    ISO9001
<b>Applications</b> This product applies to telecom power back-up system or telecom integrative power supply system and other applications which meet electric input & output parameters.	

### Discharge Table

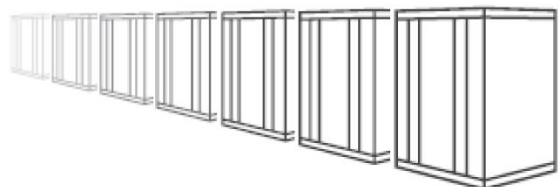
Constant Current Discharge Table (Amperes) at 25°C							
Model	Voltage	Time	1h	2h	3h	5h	10h
CH48100	End of discharge voltage 40.5V		95A	49A	33A	20A	10A

Constant Current Discharge Table (Amperes) at 25°C							
Model	Voltage	Time	1h	2h	3h	5h	10h
CH48100	End of discharge voltage 40.5V		4460W	2295W	1550W	940W	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 environmentally 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