

System Introduction

Product Introduction

PowerCube-M1-C, a high voltage battery storage system based on lithium iron phosphate battery, is one of new energy storage products developed and produced by Pylontech, which can be used to support reliable power for various types of equipment and systems. PowerCube-M1-C is especially suitable for application scene of high power, limited installation space, restricted load-bearing and long cycle life.

Specifications

External power supply battery system



Internal power supply battery system



The parameter of system

Product Type	PowerCube-M1-C-32/zzzV-L10, PowerCube-M1-C-32/zzzV-J10 (zzz=32~864, in step of 32)
Country Of Origin	China
Controller Type	SC1000-200L-C (External Power Supply Version) SC1000-200J-C (Internal Power Supply Version)
Battery Module Type	H32148-C
Nominal Voltage (Vdc)	32 × n (where n = 1~27)
Rated Capacity (Ah)	148
Total Storage Energy (kWh)	4.736 × n (where n = 1~27)
Charge Upper Voltage (Vdc)	36 × n (where n = 1~27)
Discharge Lower Voltage (Vdc)	27 × n (where n = 1~27)
Rated Charge/Discharge Current (Amps)/Power(W)	74 / 74 x 32 x n (where n = 1~27)
Max. Continuous Charge/Discharge Current (Amps)/Power(W)	148 / 148 x 32 x n (where n = 1~27)
Peak Current (Amps)/Power(W)	220@15sec/ 200 x 32 x n (where n = 1~27)
OverCurrent/Duration (Amps/ms)	8000/2
IP Rating/Protection Class	IP20/I
Operation temp. range(°C)	10 ~ 40
Communication type	CANBUS/Modbus RTU/TCP/IP
Storage temp. range(°C)	-20 ~ 60
Humidity(%)	5 - 95 (without condensing)
Round-trip efficiency(%, @1C-rate)	95
Depth of Discharge(%)	95
Dimension	815mm(W)*659mm(D)*2130mm(H)(rack for 1~23pcs) 815mm(W)*659mm(D)*2300mm(H)(rack for 1~25pcs)
Weight	114+ 43×n (where n = 1~27) kg
Operation cycle life	>7,000
Warranty	5 -10yrs Battery performance Warranty
IP rating	IP20
Cooling type	Natural cooling
Altitude [m]	<4,000
Certification	UL1973, UL9540A, IEC62477-1, IEC62040-1, IEC62619, IEC63056, UKCA, CE LVD, CE EMC, UN38.3, VDE-AR-E 2510-50

* n hereby refers to the number of battery modules

Battery Module (H32148-C)



Product Type	H32148-C
Cell Technology	Li-ion (LFP)
Battery Module Capacity (kWh)	4.736
Battery Module Voltage (Vdc)	32
Battery Module Capacity (AH)	148
Dimension (W*D*H, mm)	330×628×150.5
Protection Class	IP20
Weight (kg)	43
Operation Cycle Life	5,000
Operation Temperature(°C)	0~50
Storage Temperature(°C)	-20~60
Transportation Certificate	UN38.3

Control Module

PowerCube-M1-C's Control Module has two versions, **external** power supply and **internal** power supply.



SC1000-200L-C(External AC)



SC1000-200J-C (Internal DC)

Product Type	SC1000-200L-C	SC1000-200J-C
Related Product	M1-C	M1-C
AC Supply for BMS	230Vac/50Hz/1.3A	N/A
System Operation Voltage (Vdc)	0~1000	0~1000
Operation Current (Max.) (A)	148	148
Self-consumption Power-Relay Off (W)	12	6
Self-consumption Power-Relay On(W)	19	15
Dimension (W*D*H, mm)	330×628×150.5	330×628×150.5
Communication	MODBUS RTU\CAN\LAN	MODBUS RTU\CAN\LAN
Protection Class	IP20	IP20
Weight(kg)	13	13
Operation Life (Years)	15+	15+
Operation Temperature(°C)	-20~65	-20~65
Storage Temperature(°C)	-40~80	-40~80