

High Voltage Lithium-Ion Phosphate Battery storage system - Powercube M2A180

Battery Module: HM2A180



Module M2A180

Basic Parameters	
Capacity(kWh)	5.68
Nominal Voltage(Vdc)	38.4
Nominal Capacity(AH)	148
Voltage Range(Vdc)	32.4~43.2
Depth of Discharge	90%
Dimension(W*D*H,mm)	315×820×171.5
Communication	CANBUS/Modbus RTU/TCP/IP
Protection Class	IP20
Weight(kg)	55
Operation Temperature	0~50°C
Storage Temperature	-20~60°C
Product Certificate	UN38.3



Main Controller : S1000M2A180

Module

S1000M2A180

Basic Parameters	
Related Product	PowerCube-M2A180
AC Supply	100 - 290Vac/50Hz/1.3A
System Operation Voltage (Vdc)	0~1000
Operation Current (Max.) (A)	180
Self-consumption Power(W)	8
Dimension (W*D*H, mm)	315×710×171.5
Communication	MODBUS RTU/CAN
Protection Class	IP20
Weight(kg)	19
Operation Life	15+
Operation Temperature	-20~65
Storage Temperature	-40~80

BMS Function

Protection and Alarm

Charge/Discharge End
 Charge Over Voltage
 Charge/Discharge Over Current
 High/Low Temperature
 Operation Record
 Administrator Monitor: Current, Voltage, Temperature, SOC&SOH.

Management and Monitor

Cells Balance
 Intelligent Charge Model
 Capacity Retention Calculate
 Isolation and Protection
 Alarm and Protection



Main Controller : S1000M2A180J

Module

S1000M2A180J

Basic Parameters	
Related Product	PowerCube-M2A180
AC Supply	---
System Operation Voltage (Vdc)	0~1000
Operation Current (Max.) (A)	180
Self-consumption Power(W)	8
Dimension (W*D*H, mm)	315×738×171.5
Communication	MODBUS RTU/CAN
Protection Class	IP20
Weight(kg)	19
Operation Life	15+
Operation Temperature	-20~65
Storage Temperature	-40~80

BMS Function

Protection and Alarm

Charge/Discharge End
 Charge Over Voltage
 Charge/Discharge Over Current
 High/Low Temperature
 Operation Record
 Administrator Monitor: Current, Voltage, Temperature, SOC&SOH.

Management and Monitor

Cells Balance
 Intelligent Charge Model
 Capacity Retention Calculate
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 Alarm and Protection

Powercube M2A180 System voltage <1000V



Module
Powercube M2A180
Basic Parameters

Battery System Capacity (kWh) 5.68*n

Battery System Voltage (Vdc) 38.4*n

Battery System Capacity (AH) 148

Battery Module HM2A180

Battery Capacity(kWh) 5.68

Battery Modules Qty. (Optional) 1~19

Battery System Charge Upper-Voltage 43.2*n

Standard Operation Current(A) 29.6

Normal Operation Current(A) 74

Max. Operation Current(A) 148

Battery System Discharge lower-Voltage 32.4*n

Round-trip efficiency (@1C-rate) 95%

Depth of Discharge 90%

Dimension(W*D*H, mm) 803*845*2130

Communication CANBUS/Modbus RTU/TCP/IP

Weight (kg) 140kg+55kg*n

Operation Life 15+Years

Operation Temperature 10~40°C

Storage Temperature -20~60°C

Humidity 5 – 95%(without condensing)

Altitude (m) <4000

Product Certificate IEC62619/CE/UN38.3