

High Voltage Lithium-Ion Phosphate Battery storage system - PowerCube-M3A-180

Battery Module: HM3A180



Module HM3A180

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)	375×820×171.5
Communication	CANBUS/Modbus RTU/TCP/IP
Protection Class	IP20
Weight(kg)	61
Operation Temperature	0~50°C
Storage Temperature	-20~60°C
Product Certificate	UN38.3



Main Controller : S1000M3A180

Module

S1000M3A180

Basic Parameters	
Related Product	PowerCube-M3A180
AC Supply for BMS/FAN	100 - 290Vac/50Hz/1.3A
System Operation Voltage (Vdc)	0~1000
Operation Current (Max.) (A)	100
Self-consumption Power(W)	8
Dimension (W*D*H, mm)	375×710×171.5
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 : S1000M3A100

Module

S1500M3A180

Basic Parameters	
Related Product	PowerCube-M3A180
AC Supply for BMS/FAN	100 - 290Vac/50Hz/1.3A
System Operation Voltage (Vdc)	0~1500
Operation Current (Max.) (A)	100
Self-consumption Power(W)	8
Dimension (W*D*H, mm)	375×710×171.5
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

Powercube M3A100 System Voltage < 1000V



Module
PowerCube-M3A-180
Basic Parameters

Battery System Capacity (kWh) 5.68*n

Battery System Voltage (Vdc) 38.4*n

Battery System Capacity (AH) 148

Battery Module HM3A180

Battery Capacity(kWh) 5.68

Battery Modules Qty. (Optional) 1~19

Battery System Charge Upper-Voltage(V) 43.2*n

Battery System Nominal Current(A) 29.6

Battery System Continuous Current (A) 148

Operation temp. range 10 ~ 40°C

Battery System Discharge lower-Voltage(V) 32.4*n

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

Depth of Discharge 90%

Dimension(W*D*H, mm) 923*845*2130

Communication CANBUS/Modbus RTU/TCP/IP

Weight (kg) 140kg+61kg*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/VDE2510-50/CE/UN38.3

Powercube M3A100 System Voltage < 1500V



Module
PowerCube-M3A-180
Basic Parameters

Battery System Capacity (kWh) 5.68*n

Battery System Voltage (Vdc) 38.4*n

Battery System Capacity (AH) 148

Battery Module HM3A180

Battery Capacity(kWh) 5.68

Battery Modules Qty. (Optional) 1~32

Battery System Charge Upper-Voltage(V) 43.2*n

Battery System Nominal Current(A) 29.6

Battery System Continuous Current (A) 148

Operation temp. range 10 ~ 40°C

Battery System Discharge lower-Voltage(V) 32.4*n

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

Depth of Discharge 90%

Dimension(W*D*H, mm) 1365*845*2310

Communication CANBUS/Modbus RTU/TCP/IP

Weight (kg) 180kg+61kg*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/VDE2510-50/CE/UN38.3