

# austa<sup>o</sup>



## ● Rechargeable LFP Battery Low Voltage

AU51105-W



Multi-protection from BMS



Long cycle lifeSpan with lower costs



Friendly size and weight



10.24kWh-LiFePO4 battery cells

## AU51105-W

BATTERY MODULE	
Rated Capacity [kWh]	5.12
Available Capacity [kWh]	4.60
Battery Module (single-pack)	51.2V-100Ah
Rated Power [kWh]	2.56 (0.5P)
Rated Voltage (whole system) [V]	51.2
Operating Voltage Range [V]	44.8-57.6
Rated Continuous Current [A]	50 (0.5C)
Charging Voltage [V]	57.6 supports wide voltage operation
Charging Current [A]	≤50 (configurable)
Continuous Discharge Current [A]	≤100 (configurable)
Maximum Discharge Current [A]	100 (0-10s)
Maximum Discharge Power [kW]	4.9
Life Cycles [V]	≥6000@0.2C
Number Of Modules (for the whole system) [Hz]	1
Cell Type [Hz]	IF105 (3.2V-105Ah)
Cell Configuration (whole system)	16S/1P
Rated Capacity	Test conditions: cell voltage 2.5V-3.65V, 25 ± 3°C temperature range, 0.5C charge and discharge
Active Volume	Test conditions: 90% discharge depth, 25 ± 3°C temperature range, 0.5C charge and discharge
BMU MODULE PARAMETERS	
Typology	15-16 string charge and discharge the same port
Overcharge Charging Voltage [V]	3.60±0.01 (configurable)
Overcharge Release Voltage [V]	3.40±0.01 (configurable)
Balanced Way	Charge equalisation
Equalizing Current [mA]	≤100±10
Balanced Start Voltage [mV]	3400±10
Overdischarge Protection Voltage [V]	2.7±0.05
Short-Circuit Protection	Short circuit detection 500A delay 100us
Discharge Protection And Recovery Mode	Recovery threshold auto-recovery (charging current detected by charging activation (> 1A))
TECHNICAL DESCRIPTION	
Size (W×H×D) [mm]	520.5*714*197.5 (±5)
Weight [kg]	64±2
Operating Temperature [°C]	Charge:0~+50/Discharge:-20~+50
Storage Temperature [°C]	-20~+45 (one month) 0-35 (1 year) SOC: 50%
Ingress Protection	IP65
Cooling	Natural cooling
Communication Method	485/CAN (customisable)
Fire Fighting Methods	Aerosolsc
Fire-Fighting Mode And Trigger Time	Hot start aerosol with feedback BMS protection lead device;Protection space: 0.8m³, trigger time: 3S
Way To Install	Wall mounting type
STANDARD	
IEC 62619, EN IEC 61000-6-1, EN IEC 61000-6-2, EN IEC 61000-6-3, EN IEC 61000-6-4	