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SOLAX 3.3KWH

SOLAX 6.5KWH

General Information

Model Name	Stand Alone	
Module type	Li-ion (NMC)	
Battery type	Battery Cells + BMS + Protection Device (fuse) + Fan (Optional)	
Components	Battery Cells + BMS + Protection Device (fuse)	

Nominal Characteristics

Voltage [V]	51.8	
Capacity [Ah]	63	126
Total Energy [Wh]	3.262	6.524
Usable Energy [Wh]	>3.0	>5.9
Energy Density [Wh/l] / [Wh/kg]	197 / 125	227 / 148
Round Trip Efficiency [%]	>95 (with Standard Charging/Discharging Condition)	
Standard Charging Condition (at 25°C)	CC-CV* Charge Current: 18.9A(0.3CC) End Voltage/Current: 58.8V / 3.15A	CC-CV Charge Current: 37.8A(0.3CC) End Voltage/Current: 58.8V / 6.3A
Standard Discharging Condition (at 25°C)	CC Discharge Current: 18.9A(0.3CC) End Voltage: 42V	CC Discharge Current: 37.8A(0.3CC) End Voltage: 42V

Electrical Specifications

Voltage Range [V]	42 ~ 58.8	
Max. Charging Current [A]	63	
Max. Discharging Current [A]	63	
Circuit Protection Devices	Fuse, Pre-charging circuit (70W, 60Ohm)	
Self-Consumption Power [W]	TBD (with fan / without fan)	

Mechanical Specifications

Dimension [DxWxH, mm]	550(W)*139(D)*700(H)	550(W)*139(D)*700(H)
Weight [kg]	25.5±0.2	44±0.2
Ingress Rating	IP21	
Cooling	Forced Air Cooling (Optional)	Natural Convection

Communication Specifications

Communication Protocol	CAN / Modbus485
Hard-wiring	Dry Contact 2ch
Communication Port	RJ48

Operation Conditions

Operation Temperature [°C]	-10 ~ 45	Optimal : 15 ~ 30
Operation Humidity [%]	5~95	
Altitude [m]	Max. 2000	

Functional Features

Hot-swappability	Functions of replacing the battery module without shutting down	
Scalability	Parallel connection Up to 10 modules (630Ah / 1260Ah) * Not acceptable to use two kinds of modules mixed	
Circuit Protection	Fuse, Pre-charging circuit on discharge current path (70W, 60Ohm)	

Storage Condition

Temperature [°C]	-30 ~ 60	
Operation Humidity [%]	5~95	

Certification

Safety	UL1642 (Cell level), UL1973 (Module level)	
EMC	EN 61000	
Transport	UN38.3	
Environment	ROHS	

*CC: Constant Current, CV: Constant Voltage