



Altus[®]-350 48VDC Module Datasheet

Lithium Iron Phosphate ENERGY STORAGE MODULE

TECHNICAL DATA SHEET

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MODEL NUMBER		48V30A	48V60A	48V90A	48V120A
ENERGY	Total Energy	1.5 kWh	3.0 kWh	4.5 kWh	6.0 kWh
PERFORMANCE	Voltage (Nominal) DC	48	48	48	48
	Maximum Charge Voltage	54.75	54.75	54.75	54.75
	Discharge Cut-Off Voltage	30	30	30	30
	Continuous Discharge Rate	90	180	270	360
	Continuous Charge Rate	30	60	90	120
	Maximum Charge Rate	30	60	90	120
	Maximum Discharge Rate	180	360	270	360
	Self-Discharge Rate	1.5-4% per month			
	Maximum Depth of Discharge	80%	80%	80%	80%
	Recommended Depth of Discharge	80%	80%	80%	80%
Dimensions (w × d × h)	450X560X190 mm 17.5X16.0X7.5 in.	450X560X190 mm 17.5X24X7.5 in	450×560×190 mm 17.5X24X7.5 in	450X560X190 mm 17.5X24X7.5 in	
PHYSICAL SPECS	Weight	21 kgs	32 kgs	43 kgs	54 kgs
	Module Casing Material	Steel	Steel	Steel	Steel
	Power Terminal Type	3/8 or 1/2 inch Studs			
	Monitoring Data	Total Cell Voltage, Current, Temperatures, Energy			
SAFETY	Alarm	Sound Alarm for under/over Voltage, Over Current, over Temperature			
	Module Monitoring	Current, Voltage, Temperatures, Total Energy delivered, SOC			
	Over/under voltage	Unit shut down			
	Over Current	Unit shut down			
	Over temperature	Unit shut down			
	Short Circuit	Solid State Protection with auto reset			
ENVIRONMENT	Operating Humidity	90% non-Condensing			
	Cell Operating Temperature	-20 ⁰ C to 45 ⁰ C			
Expected Life		At operating temp. of 25 ⁰ 2,000 Cycles			
Connectivity	Communication	RS 485 Modbus Slave/RTU			