



ESS Datasheet MODEL: Altus®-350

Lithium Iron Phosphate ENERGY STORAGE MODULE

TECHNICAL DATA SHEET			
Model No.		24V120A	48V120A
ENERGY	Total Energy	3.072 kWh	6.144 kWh
PERFORMANCE	Voltage (Nominal) DC	24	48
	Maximum Charge Voltage	28.8	57.6
	Discharge Cut-Off Voltage	20.0	40.0
	Continuous Discharge Current Amp.	60	60
	Continuous Charge Current Amp.	60	60
	Maximum Charge Current Amp.	< 70	< 70
	Maximum Discharge Current Amp.	< 70	<70
	Self-Discharge Rate	1-3% per month*	
	Maximum Depth of Discharge	100%	
	Recommended Depth of Discharge	80%	
	Dimensions (w × d × h)	450X560X222.25 mm	
PHYSICAL SPECS	Weight	App. 33 kgs	App. 56 kgs
	Module Casing Material	Steel	
	Power Terminal Type	Through Type Terminals	
	Monitoring Data	String Voltage, Cell Voltage, Current, Temperatures	
SAFETY	Alarm	Alarm for under/over Voltage, Over Current, over Temperature	
	Module Monitoring	Current, Voltage, Temperatures and SOC	
	Over/under voltage	Unit shut down	
	Over Current	Unit shut down	
	Over temperature	Unit shut down	
	Short Circuit	Solid State Protection	
ENVIRONMENT	Humidity	<90% non-condensing / <70% storage	
	Cell Operating Temperature	0° - 45° C (Chrg), -20°-50°C (Dischrg)	
	Storage Temperature	-20°-45°C One month,, 0°-35°C One year	
Expected Life	Cycles at operating temp. 0-25 deg. C; EoL Cap. 80%	>7,500 Cycles @0.5C; >6000 Cycles @ 1.0C	
Efficiency		Energy Efficiency 93.5 % (0.5C) 92% (1.0C)	
Connectivity	Communication	CAN	

*2.5% @25°c and 4% @40°C