

# Datasheet

Series	LUX-Y-48100HG01MN <sup>[1]</sup>								
Model	LUX-Y-48100 HCG01M4	LUX-Y-48100 HCG01M5	LUX-Y-48100 HCG01M6	LUX-Y-48100 HCG01M7	LUX-Y-48100 HCG01M8	LUX-Y-48100 HCG01M9	LUX-Y-48100 HCG01M10	LUX-Y-48100 HCG01M11	LUX-Y-48100 HCG01M12
Number of Battery Modules	4	5	6	7	8	9	10	11	12
System Nominal Energy	20.48kWh	25.6kWh	30.72kWh	35.84kWh	40.96kWh	46.08kWh	51.2kWh	56.32kWh	61.44kWh
System Usable Energy	19.45kWh	24.32kWh	29.18kWh	34.04kWh	38.91kWh	43.77kWh	48.64kWh	53.50kWh	58.36kWh
System Nominal Voltage	204.8V	256V	307.2V	358.4V	409.6V	460.8V	512V	563.2V	614.4V
System Operating Voltage	185.6-230.4V	232-288V	278.4-345.6V	324.8-403.2V	371.2-460.8V	417.6-518.4V	464-576V	510.4-633.6V	556.8-691.2V
Rated Charge/Discharge Power	10.24kW	12.80kW	15.36kW	17.92kW	20.48kW	23.04kW	25.6kW	28.16kW	30.72kW
Maximum Charge/Discharge Power	10.24kW	12.80kW	15.36kW	17.92kW	20.48kW	23.04kW	25.6kW	28.16kW	30.72kW
System Weight	231kg	273.5kg	316kg	358.5kg	401kg	459.5kg	502kg	544.5kg	587kg
System Dimension	560*590*1580mm					560*590*2152mm			
Battery Type	LiFePO <sub>4</sub>								
Nominal Energy	5.12kWh								
Nominal Voltage	51.2V								
Nominal Capacity	100Ah								
Recommend Charge/Discharge current	50A								
Max. continuous charge/Discharge current <sup>[2]</sup>	50A								
Depth of discharge(DOD)	95%								
Short-time withstand current (I <sub>cw</sub> )	935A@4ms								
Peak withstand current (I <sub>pk</sub> )	1590A								
Max. DC short-circuit current	3.74kA(9ms)								
Display type	LED+LCD(Touch)								
IP Rating of Enclosure	IP20								
Working Temperature Range	Charge: 0°C~+50°C								
	Discharge: -20°C~+50°C								
Storage Temperature Range	0°C~+35°C								
Humidity	5%~95%								
Altitude	≤2000m								

Cycle Life <sup>[1]</sup>		≥ 6000 Cycles
Installation		Rack-Mounting
Protection		Built-in smart BMS, Breaker, Fuse
Communication Port		RS485 / CAN
Warranty Period <sup>[4]</sup>		10 Year
Control Module LUX-Y48100HCG01	Product Dimension	482.6x565x150mm
	Package Dimension	562x687x269mm
	Product Weight Approximate	15kg
	Package Weight Approximate	22.5kg
Battery Module LUX-Y48100HMG01	Product Dimension	482.6x565x133mm
	Package Dimension	562x687x250mmmm
	Product Weight Approximate	42.5kg
	Package Weight Approximate	46.3kg
	Battery Designation	IFpP54/150/120[1P16S]M/-20+50/95
Rack LUX-Y48100HR13G01	Product Dimension	560×590×2152mm (13th floor)
	Package Dimension <sup>[5]</sup>	165×640×2142mm
	Product Weight Approximate	62kg
	Package Weight Approximate	69.5kg
Rack LUX-Y48100HR9G01	Product Dimension	560×590×1580mm (9th floor)
	Package Dimension <sup>[5]</sup>	168×642×1570mm
	Product Weight Approximate	46kg
	Package Weight Approximate	52kg(Approx)
[1] N=4,5,6,7,8,9,10,11 or 12,N is the quantity of battery module.		
[2] Max. continuous charge/discharge current is affected by temperature and SOC.		
[3] Test conditions: 0.2C Charging/Discharging @25°C, 80% DOD.		
[4] Conditions apply, refer to FelicityESS Warranty policy.		
[5] Knock-down packaging. Rack components individually packed. Dimensions: shipping/storage only.		

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