

# LUX-Y Battery Pack

LUX-Y-48100HG01



## Specification



### Product Features



Inverter interface protection: Over voltage, Over current, External Short Circuit



Battery Protection: Internal Short Circuit, Over voltage, over current, over temp



LiFePO4: Higher safe performance and longer cycle life



Fire Extinguishing Gel Inside



Flexible Installation: Stack-Mounted



Wide Compatibility: Compatible with leading inverter brands



High Scalability



Long Warranty: 10 Years

Model		LUX-Y-48100HG01		
Battery Type		LiFePO4		
Module Energy		5.12KWh		
Single Module Nominal Voltage		51.2V		
Module Capacity		100AH		
Number of Battery Modules (Optional)	4(Min)	8	12	
System Energy	20.48kWh	40.96kWh	61.44kWh	
System Nominal Voltage	204.8V	409.6V	614.4V	
System Operating Voltage	192-230.4V	384-460.8V	576-691.2V	
Scalability[4]		Max. 16 PCS in Parallel(983.04kwh)		
Recommend Charge/Discharge current		50A		
Max. continuous charge/Discharge current[1]		100A		
Peak Charge/Discharge current(15S)		120A		
Depth of Discharge(DOD)		≥ 95%		
Display type		LED+LCD(Touch)		
Protection Level		IP21		
Operating Temperature Range		Charge:0~+55°C/Discharge:-20°C~+55°C		
Storage Temperature Range		0°C~+35°C		
Humidity		5%~95%		
Altitude		≤2000m		
Cycle Life[2]		≥ 6000 Cycles		
Installation		Rack-Mounting		
Protection		Built-in smart BMS, Breaker		
Communication Port		RS485 / CAN		
Warranty Period[3]		10 Year		
Control Module LUX-Y-48100HCG01	Product Dimension	482.6x565x150mm		
	Package Dimension	687x562x269mm		
	Product Weight Approximate	10.3kg		
	Package Weight Approximate	16.7kg		
Battery Module LUX-Y-48100HMG01	Product Dimension	482.6x565x131mm		
	Package Dimension	687x562x250mm		
	Product Weight Approximate	41.3kg		
	Package Weight Approximate	45kg		
Rack LUX-Y-48100HR13G01	Product Dimension	560x590x2077.5mm (13th floor)		
	Package Dimension	678x708x2199mm		
	Product Weight Approximate	68.5kg		
	Package Weight Approximate	108.5kg		
Rack LUX-Y-48100HR9G01	Product Dimension	560x590x1532.5mm (9th floor)		
	Package Dimension	678x708x1654mm		
	Product Weight Approximate	51kg		
	Package Weight Approximate	80.5kg(Approx)		

[1] Max. Continuous charge/discharge current/power is affected by temperature and SOC.

[2] Test conditions: 0.5C Charging/Discharging @25°C, 80% DOD, 60%EOL.

[3] Conditions apply, refer to FelicityESS Warranty Letter.

[4] Future models will be designed to allow for parallel connectivity.