

Datasheet

Model[1]		FLH48 100UG2 M5	FLH48 100UG2 M6	FLH48 100UG2 M7	FLH48 100UG2 M8	FLH48 100UG2 M9	FLH48 100UG2 M10	FLH48 100UG2 M11	FLH48 100UG2 M12	FLH48 100UG2 M13	FLH48 100UG2 M14	FLH48 100UG2 M15	FLH48 100UG2 M16
Product Series Name		FLH											
Battery Type		LiFePO4											
Nominal Energy		5.12kWh											
Nominal Voltage		51.2V											
Nominal Capacity		100Ah											
Number of Battery Modules[2]		5(Mn)	6	7	8	9	10	11	12	13	14	15	16(max)
System Nominal Voltage (V)		256	307.2	358.4	409.6	460.8	512	563.2	614.4	665.6	716.8	768	819.2
System Operating Voltage (V)		232-288	278.4-345.6	324.8-403.2	371.2-460.8	417.6-518.4	464-576	510.4-633.6	556.8-691.2	603.2-748.8	649.6-806.4	696-864	742.4-921.6
System Energy (kWh)		25.6	30.72	35.84	40.96	46.08	51.2	56.32	61.44	66.56	71.68	76.8	81.92
System Usable Energy (kWh)		23.04	27.64	32.25	36.86	41.47	46.08	50.68	55.29	59.90	64.51	69.12	73.72
Rated DC Power (kW)		25.6	30.72	35.84	40.96	46.08	51.2	56.32	61.44	66.56	71.68	76.8	81.92
Recommend Charge/Discharge Current		50A											
Max. Continuous Charge/Discharge Current[3]		100A											
Depth of Discharge(DOD)		90%											
Display Type		LED+LCD(Touch)											
IP Rating of Enclosure		IP20											
Working Temperature Range		Charge:0°C ~ +55°C											
		Discharge:-20°C ~ +55°C											
Storage Temperature Range		0°C ~ +35°C											
Humidity		5%~95%											
Altitude		≤3000m											
Cycle Life[4]		≥6000											
Installation		Rack-Mounting											
Protection		Built-in smart BMS, Breaker, Fuse											
Communication Port		RS485/CAN											
Warranty Period[5]		10 Years											
Certification		CE / IEC 62619 / IEC 62040 / UN38.3											
Control Module FLH48100UG2	Product Dimension	482.6x565x150mm											
	Package Dimension	687x562x269mm											
	Product Weight Approximate	17.5kg											
	Package Weight Approximate	24.7kg											

Battery Module FLH48100UMG2	Product Dimension	482.6x565x133mm
	Package Dimension	687x562x250mm
	Product Weight Approximate	42.5kg
	Package Weight Approximate	46kg
	Battery Designation[1]	IFpP54/150/120[(1P16S)NS]M/-20+50/90
Rack FLH48100R13G2	Product Dimension	590×532×2087.50mm(13th floor)
	Package Dimension	657×138×2167mm
	Product Weight Approximate	49kg
	Package Weight Approximate	57kg
Rack FLH48100R9G2	Product Dimension	590×532×1515.5(9th floor)
	Package Dimension	657×138×1595mm
	Product Weight Approximate	37.7kg
	Package Weight Approximate	43.2kg
FLH48100UG2MN -1M6S	Product Dimension	Bracket: 143×50×32mm(single unit) Rubber foot: D40×M8×L68(single unit)
	Package Dimension	367×367×138mm
	Product Weight Approximate	Bracket: 263g(single unit) Rubber foot: 89.5g(single unit)
	Package Weight Approximate	8.8kg
[1] N=5,6,7,8,9,10,11,12,13,14,15 or 16.N is the number of battery modules connected series and should not exceed 16.(5≤N≤16)		
[2] Currently, the battery supports a maximum of 16 battery modules. For the entire energy storage system, confirm the inverter's maximum supported voltage range to determine the maximum number of battery modules that can be installed.		
[3] Max. continuous charge/discharge current is affected by temperature and SOC.		
[4] Test conditions: 0.5C Charging/Discharging@25±2°C,EOL70%.		
[5] Conditions apply, refer to Felicitysolar Warranty policy.		

System Weight/Dimension

Model	5	6	7	8	9	10	11	12	13	14	15	16
System Weight: With FLH48100UG2MN-1M6S rack	236.67kg	280.222kg	\	\	\	\	\	\	\	\	\	\
System Dimension: With FLH48100UG2MN-1M6S rack	546.6x565x883mm	546.6x565x1016mm	\	\	\	\	\	\	\	\	\	\
System Weight: With FLH48100R9G2 rack	267.7kg	310.2kg	352.7kg	395.2kg	475.4kg	517.9kg	560.4kg	602.9kg	645.4kg	687.9kg	730.4kg	772.9kg
System Dimension: With FLH48100R9G2 rack	590x532x1515.5mm					590x532x1515.5mm*2						
System Weight: With FLH48100R13G2 rack	279kg	321.5kg	364kg	406.5kg	449kg	491.5kg	534kg	576.5kg	\	\	\	\
System Dimension: With FLH48100R13G2 rack	590x532x2087.5mm											

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