

DEYE ESS

Model Selection Guide

MS-GS215-2H3 & MC-L430-2H2

September, 2025



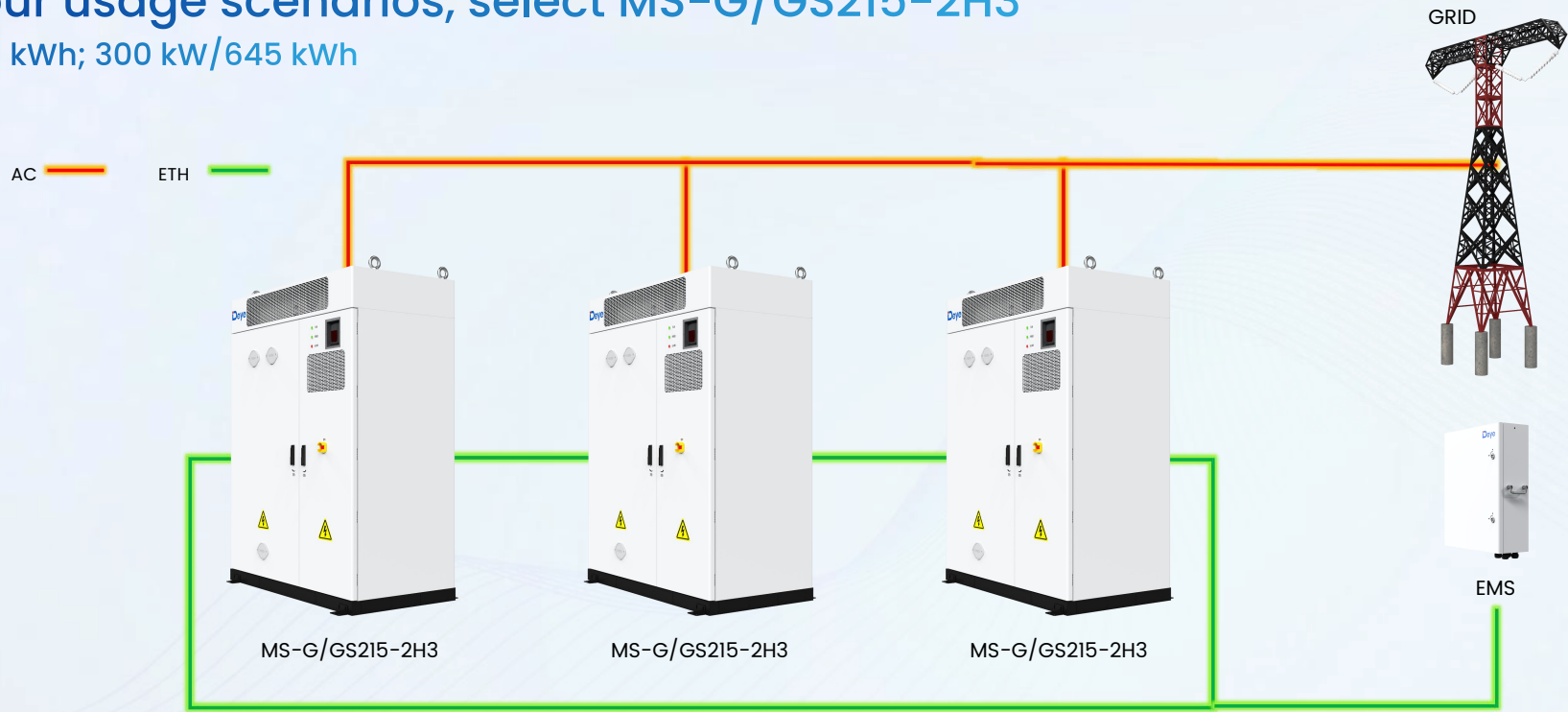
Model Selection Guide: MS-GS215-2H3 & MC-L430-2H2

No.	Scenario Factor	Model Selection	Remarks
1.1	Usage over 2 hours	MC-L430-2H2/3	Supports 2/4/6/8 hours of use
1.2	High-temperature areas	MC-L430-2H2/3	Supports operation at $\leq 55^{\circ}\text{C}$
1.3	Limited installation space	MS-G/GS215-2H3	
1.4	Stricter anti-corrosion requirements	MS-G/GS215-2H3	Meets C5 anti-corrosion rating
1.5	Compatible with MS-DCC180-2 charging station	MS-LC430-2H2	

1.1 Product Selection by Usage Duration

For fixed 2-hour usage scenarios, select MS-G/GS215-2H3

Example: 100 kW/215 kWh; 300 kW/645 kWh



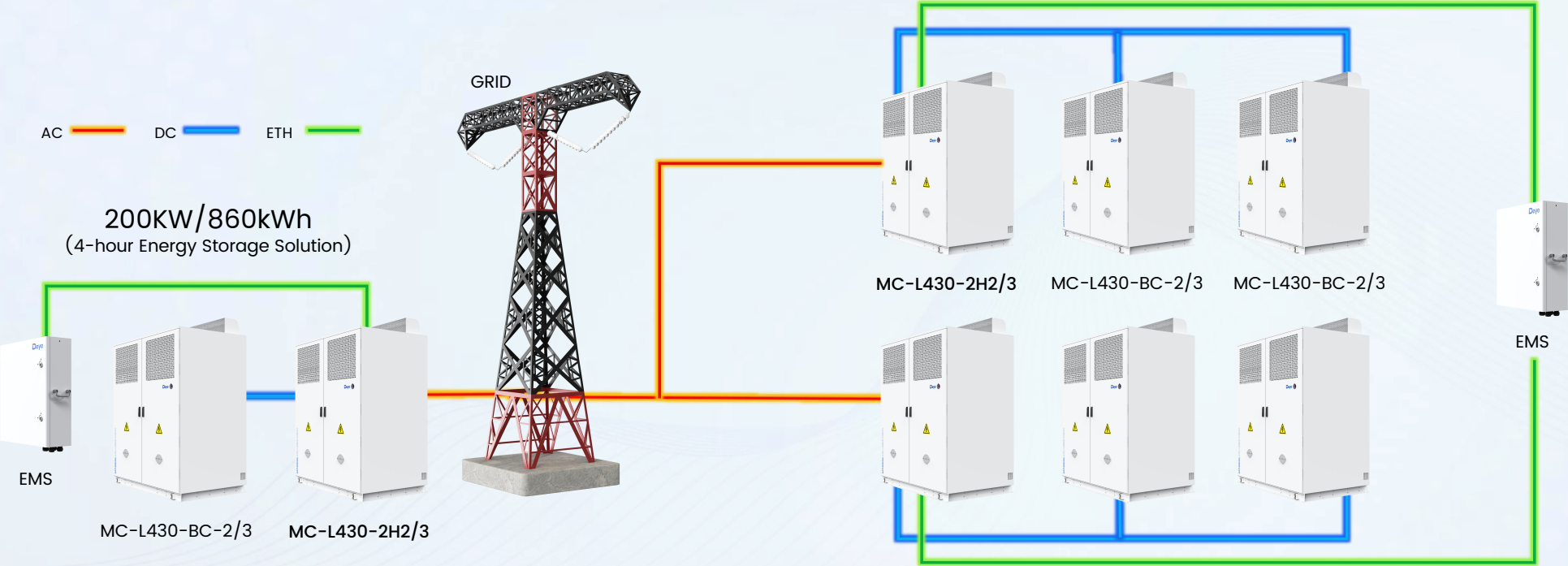
No.	Product Name	Remarks
1	MS-G/GS215-2H3	Up to 20 units in pure grid-connected parallel mode MS-G215-2H3 without MPPT MS-GS215-2H3 with built-in 200 kW MPPT
2	EMS	Supports up to 16 LC units

1.1 Product Selection by Usage Duration

For applications exceeding 2 hours, select MC-L430-2H2/3

Example: 200KW/860kWh; 400KW/2.58MWh

400KW/2.58MWh
(6-hour Energy Storage Solution)



No.	Product Name	Remarks
1	MC-L430-2H2/3	Support 2/4/6/8-hour energy storage applications
2	MC-L430-BC-2/3	Each MC-L430-2H2/3 unit can be connected to up to three MC-L430-BC-2/3 cabinets
3	EMS	Supports up to 16 LC units

1.2 Product Selection by Operating Temperature Range



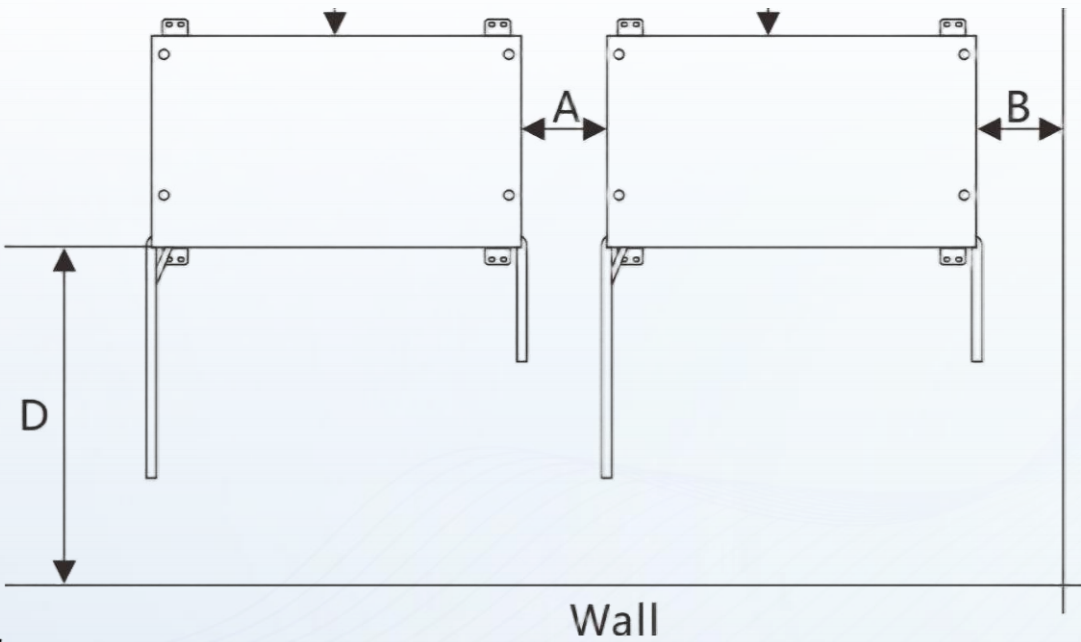
No.	Product Name	Operating Temperature Range
1	MS-G/GS215-2H3	-20~50°C

1.2 Product Selection by Operating Temperature Range



No.	Product Name	Operating Temperature Range
1	MC-L430-2H2/3	-20~50°C
2	MC-L430-BC-2/3	-20~55°C

1.3 Product Selection by Installation Footprint

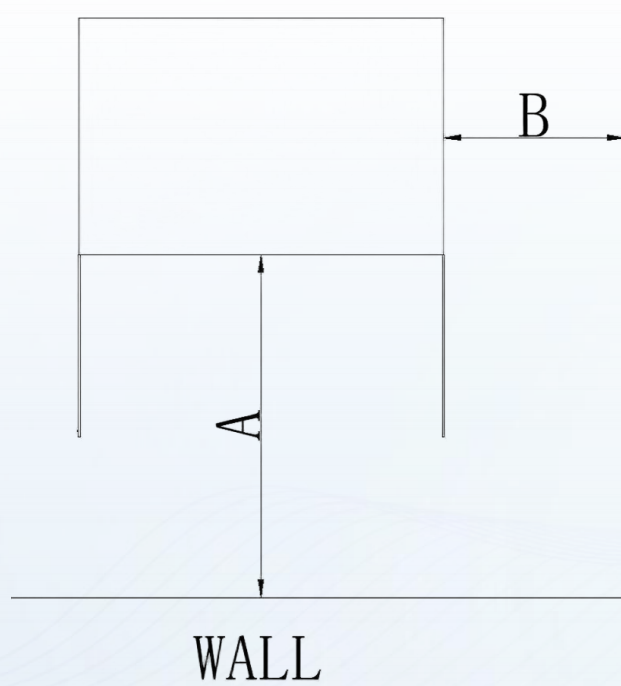


200KW/430kWh

Serial Number	Distance (mm)
A	150
B	150
C	1500

No.	Product Name	Product Footprint
1	2*MS-G/GS215-2H3	4030*2500=10.075m²

1.3 Product Selection by Installation Footprint



200KW/430kWh

Serial Number	Distance (mm)
A	≥ 3500
B	≥ 1000

No.	Product Name	Product Footprint
1	1*MC-L430-2H2/3	$3000 \times 4800 = 14.4\text{m}^2$

1.4 Product Selection by Anti-corrosion Grade



No.	Product Name	Anti-corrosion Grade
1	MS-G/GS215-2H3	C5

1.4 Product Selection by Anti-corrosion Grade



No.	Product Name	Anti-corrosion Grade
1	MC-L430-2H2/3	C4

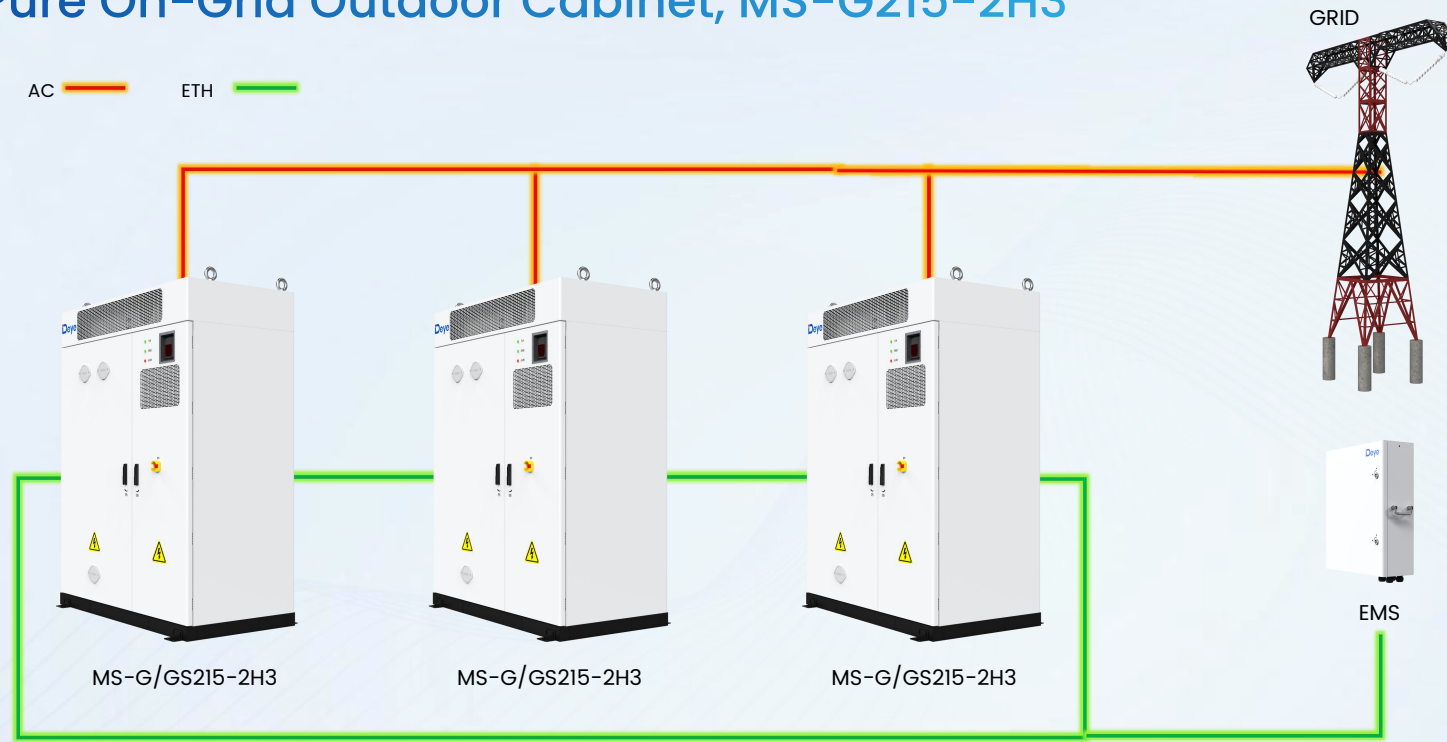
1.5 Compatible with MS-DCC180-2 Charging Terminal



No.	Product Name	Ancillary Equipment
1	MS-LC430-2H2	MS-DC420-2 (DC Cabinet) MS-DCC180-2 (DC Charging Terminal) MS-MPPT400-S (MPPT+STS Cabinet) MS-LC430-BC (Battery Cabinet)

2. On-grid System Selection

2.1 Configuration of Pure On-Grid Outdoor Cabinet, MS-G215-2H3



No.	Product Name	Quantity	Remarks
1	MS-G215-2H3	1~20	For pure grid-tied applications, support up to 20 units in parallel
2	EMS	1~2	One EMS can support up to 16 LC units, with each MS-G215 equipped with one LC

2. On-grid System Selection

2.1 Configuration of Pure On-Grid Outdoor Cabinet, MC-L430-2H2/3



No.	Product Name	Quantity	Remarks
1	MC-L430-2H2/3	1~N	Based on transformer demand control
2	MC-L430-BC-2/3	0~3N	Each MC-L430-2H2/3 can be expanded by up to 3 MC-L430-BC-2/3
3	EMS	1~N	One EMS can support up to 16 LC units, with each MC-L430-2H2/3 equipped with one LC

2. On-grid System Selection

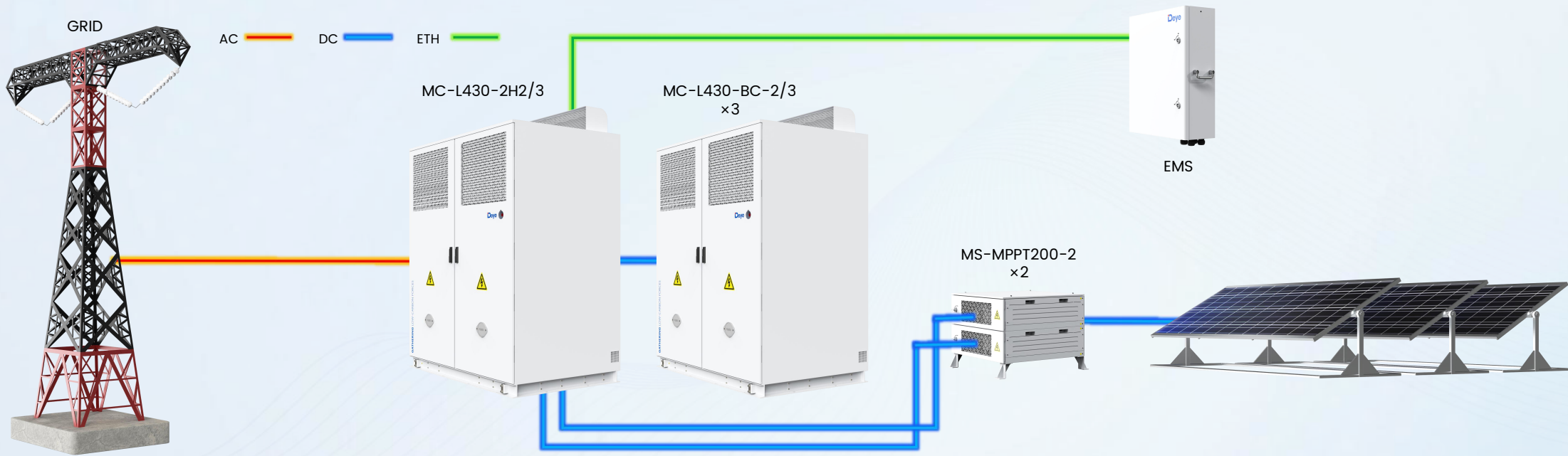
2.2 Configuration of PV + Storage Outdoor Cabinet, MS-GS215-2H3



No.	Product Name	Quantity	Remarks
1	MS-GS215-2H3	1~20	For pure grid-tied applications, support up to 20 units in parallel. The cabinet includes a 200 kW MPPT that can be connected to PV panels.
2	EMS	1~2	One EMS can support up to 16 LC units, with each MS-G215 equipped with one LC

2. On-grid System Selection

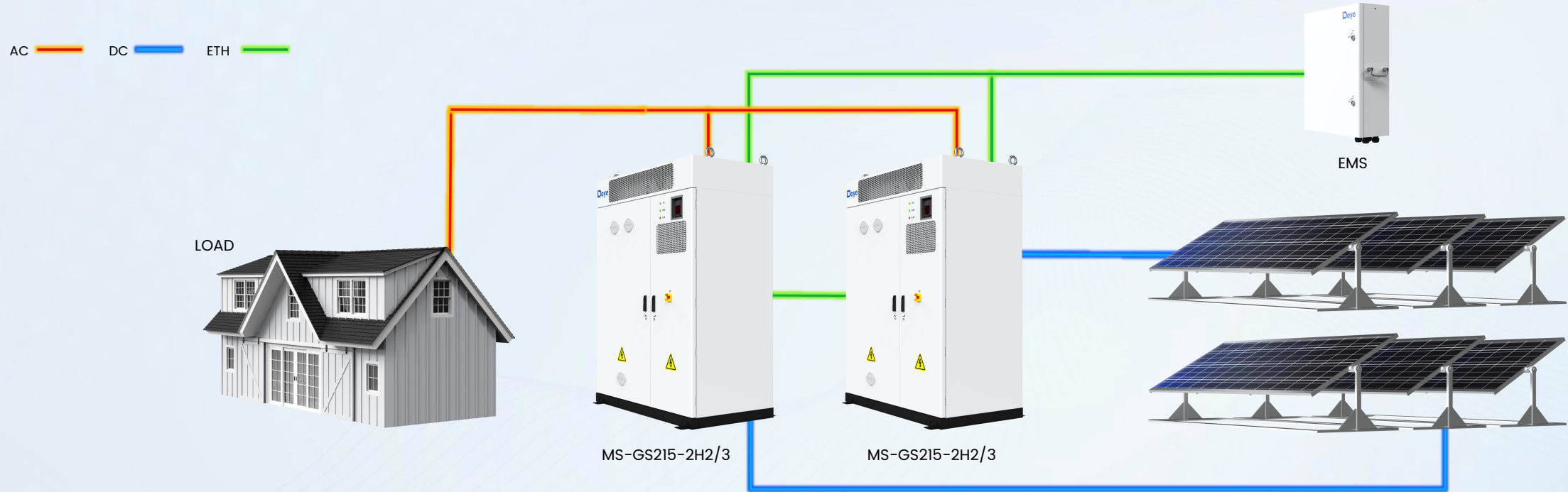
2.2 Configuration of Pure Grid-Connected Outdoor Cabinet MC-L430-2H2/3



No.	Product Name	Quantity	Remarks
1	MC-L430-2H2/3	N	Controlled according to transformer demand
2	MC-L430-BC-2/3	3N	Each MC-L430-2H2/3 can be connected to 3 BC cabinets
3	EMS	N	One EMS can be connected to up to 16 LCs, and each MC-L430-2H2/3 is equipped with one LC
4	MS-MPPT200-2	2N	200KW MPPT module

3. Off-grid System Selection

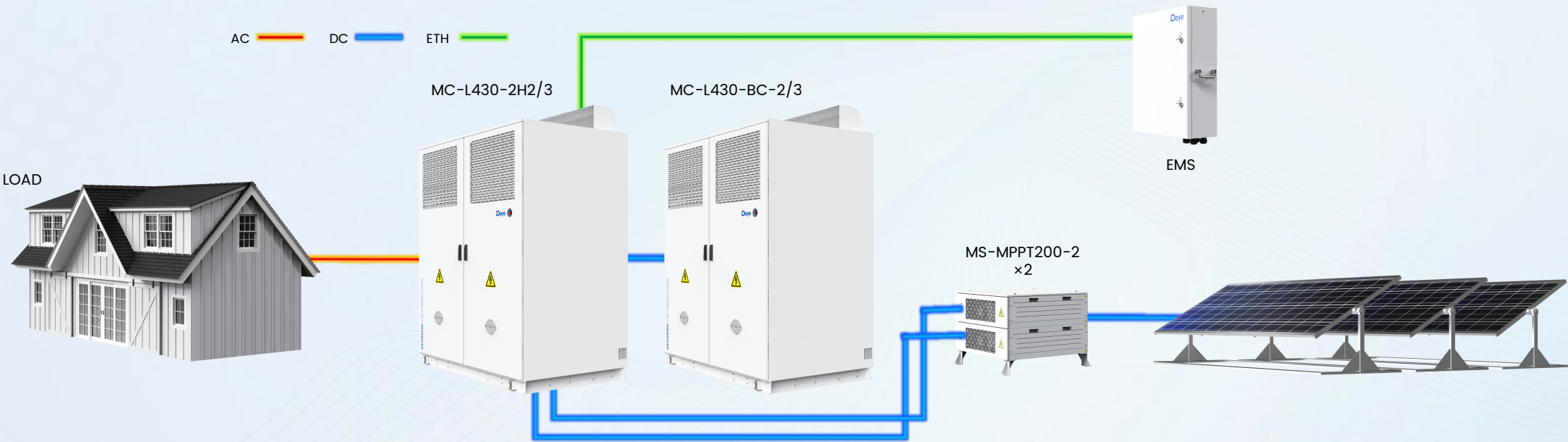
3.1 Configuration of Photovoltaic-Storage Outdoor Cabinet MS-GS215-2H3



No.	Product Name	Quantity	Remarks
1	MS-GS215-2H3	1~10	Maximum 10 units can be paralleled in off-grid mode
2	EMS	1	One EMS can be matched with up to 16 LCs, and each MS-G215 is equipped with one LC

3. Off-grid System Selection

3.1 Configuration of Photovoltaic-Storage Outdoor Cabinet MC-L430-2H2/3



No.	Product Name	Quantity	Remarks
1	MC-L430-2H2/3	1~5	Maximum 5 units can be paralleled in off-grid mode
2	MC-L430-BC-2/3	0~3	Each MC-L430-2H2/3 can be expanded by up to 3 units
3	EMS	1	One EMS can be connected to up to 16 LCs, and each MC-L430-2H2/3 is equipped with one LC
4	MS-MPPT200-2	2N	200KW MPPT module, each MC-L430-2H2/3 can be matched with 2 units

3. Off-grid System Selection

3.2 Configuration of Photovoltaic-Storage-Diesel Outdoor Cabinet MS-GS215-2H3



No.	Product Name	Quantity	Remarks
1	MS-GS215-2H3	1~5	Maximum 5 units can be paralleled when matched with MS-TS500-2
2	MS-TS500-2	1	Required when a diesel generator is included
3	EMS	1	One EMS can be connected to up to 16 LCs, and each MC-L430-2H2/3 is equipped with one LC

3. Off-grid System Selection

3.2 Configuration of Photovoltaic-Storage-Diesel Outdoor Cabinet MC-L430-2H2/3



No.	Product Name	Quantity	Remarks
1	MC-L430-2H2/3	1~2	Maximum 2 units can be paralleled when matched with MS-MPPT400-2
2	MC-L430-BC-2/3	0~3	Select whether to use MC-L430-BC-2/3 based on demand to expand capacity; each integrated cabinet can add up to 3 units
3	EMS	1	One EMS can be connected to up to 16 LCs, and each MC-L430-2H2/3 is equipped with one LC
4	MS-MPPT400-2	1	Built-in 500KW STS and 400KW MPPT modules, compatible with diesel generators and photovoltaic systems

4. On / Off- Grid System Selection

4.1 Configuration of Pure Energy Storage Outdoor Cabinet MS-G215-2H3



No.	Product Name	Quantity	Remarks
1	MS-G215-2H3	1~5	Maximum 5 units can be paralleled in grid-connected and off-grid mode
2	MS-TS500-2	1	500KW STS
3	EMS	1	One EMS can be connected to up to 16 LCs, and each MS-G215-2H3 is equipped with one LC

4. On / Off- Grid System Selection

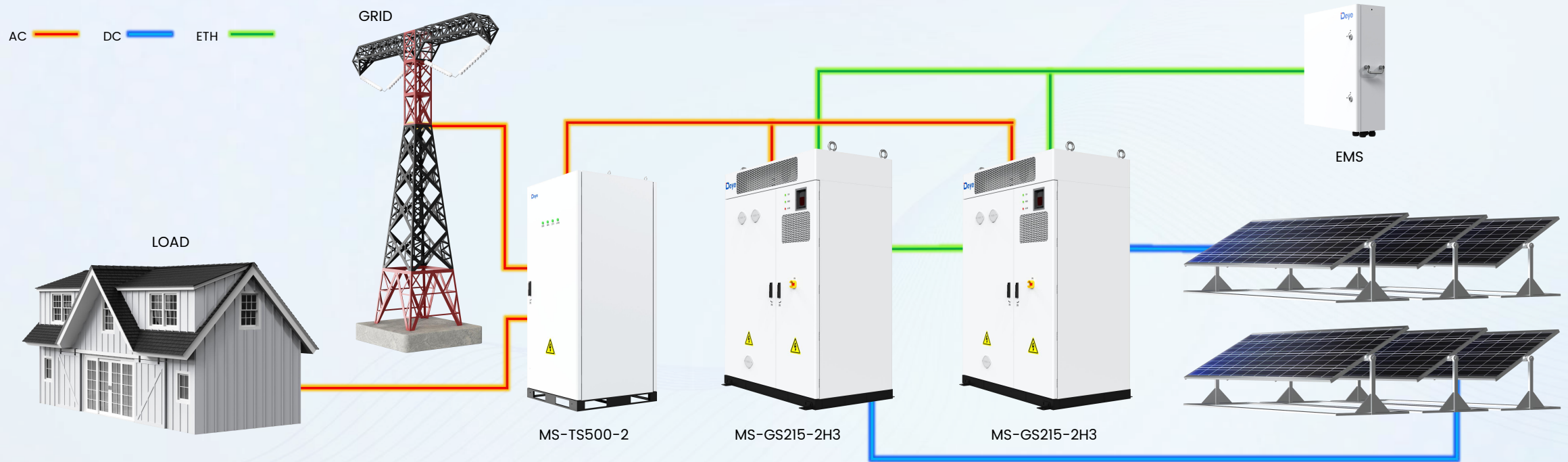
4.1 Configuration of Pure Energy Storage Outdoor Cabinet MC-L430-2H2/3



No.	Product Name	Quantity	Remarks
1	MC-L430-2H2/3	1~2	Maximum 2 units can be paralleled in grid-connected and off-grid mode
2	MC-L430-BC-2/3	0~3	Each MC-L430-2H2/3 can be expanded by up to 3 units
3	MS-TS500-2	1	500KW STS
4	EMS	1	One EMS can be connected to up to 16 LCs, and each MC-L430-2H2/3 is equipped with one LC

4. On / Off- Grid System Selection

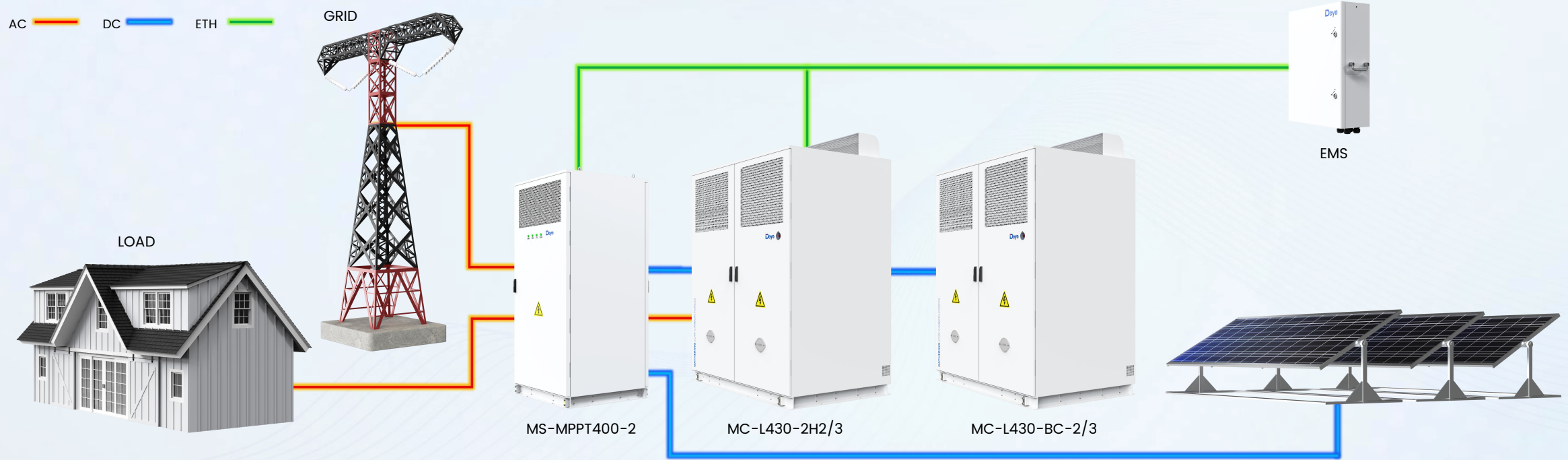
4.2 Configuration of Photovoltaic-Storage Outdoor Cabinet MS-GS215-2H3



No.	Product Name	Quantity	Remarks
1	MS-GS215-2H3	1~5	Maximum 5 units can be paralleled in grid-connected and off-grid mode
2	MS-TS500-2	1	500KW STS
3	EMS	1	One EMS can be connected to up to 16 LCs, and each MS-GS215-2H3 is equipped with one LC

4. On / Off- Grid System Selection

4.2 Configuration of Outdoor Cabinet MC-L430-2H2/3



No.	Product Name	Quantity	Remarks
1	MC-L430-2H2/3	1~2	Maximum 2 units can be paralleled in grid-connected and off-grid mode
2	MC-L430-BC-2/3	0~3	Each MC-L430-2H2/3 can be expanded by up to 3 units
3	MS-MPPT400-2	1	MS-MPPT400-2 includes 500KW STS and 400KW MPPT functions
4	EMS	1	One EMS can be connected to up to 16 LCs, and each MC-L430-2H2/3 is equipped with one LC

4. On / Off- Grid System Selection

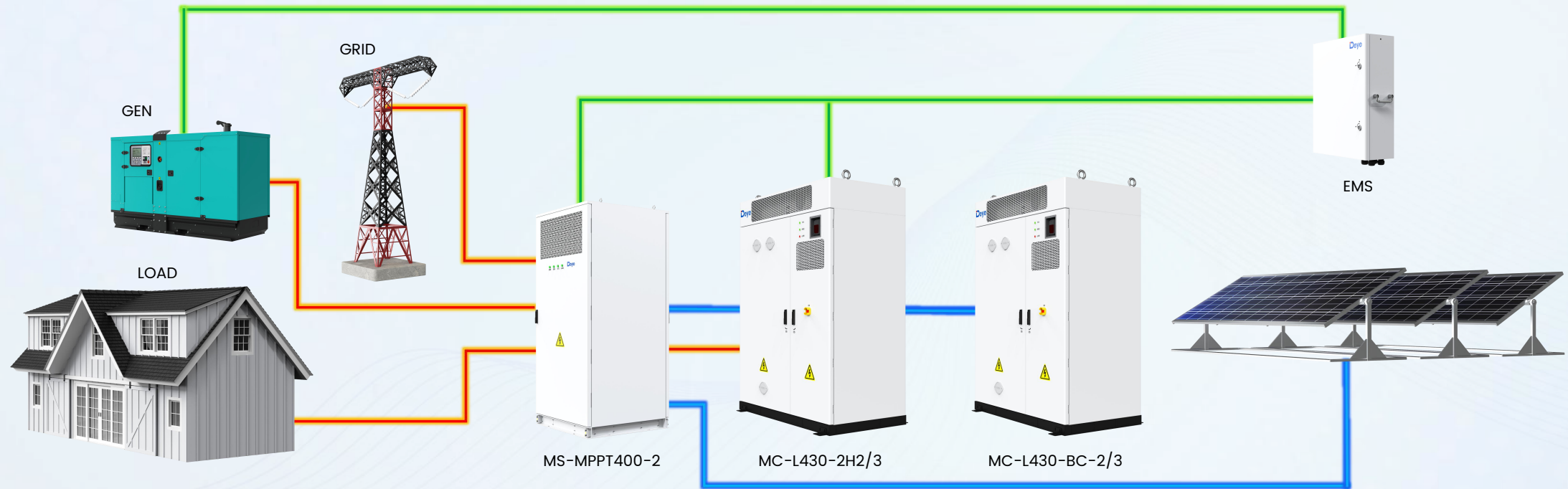
4.3 Configuration of Photovoltaic-Storage-Diesel Outdoor Cabinet MS-GS215-2H3



No.	Product Name	Quantity	Remarks
1	MS-GS215-2H3	1~5	Maximum 5 units can be paralleled in grid-connected and off-grid mode
2	MS-TS500-2	1	500KW STS, compatible with power grid, loads and diesel generators
3	EMS	1	One EMS can be connected to up to 16 LCs, and each MS-GS215-2H3 is equipped with one LC

4. On / Off- Grid System Selection

4.4 Configuration of Outdoor Cabinet MC-L430-2H2/3



No.	Product Name	Quantity	Remarks
1	MC-L430-2H2/3	1~2	Maximum 2 units can be paralleled in grid-connected and off-grid mode
2	MC-L430-BC-2/3	0~3	Each MC-L430-2H2/3 can be expanded by up to 3 units
3	MS-MPPT400-2	1	MS-MPPT400-2 includes 500KW STS and 400KW MPPT functions
4	EMS	1	One EMS can be connected to up to 16 LCs, and each MC-L430-2H2/3 is equipped with one LC

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