

Deye C&I ESS Solution

Deye MS-G215-2H2 MS-GS215-2H2 MS-TS300 MS-S300

Deye

Multi-fusion

- Integrated EMS, PCS, and BMS
- Support expansion of MPPT module
- Support off-grid backup power and diesel generator integration
- Support black start function

Intelligent control

- Precision thermal management keeps battery temperature under 35°C, reducing power consumption
- Intelligent BMS provides complete protection
- Intelligent EMS enables peak-valley arbitrage, anti-backflow, transformer overload protection, load tracking, demand control, backup power and phase separation

Safer

- Lithium Iron Phosphate (LFP) batteries
- System supports aerosol fire extinguishing solution
- Battery compartment supports automatic gas venting and explosion-proof features

Scalable

- Support up to 3 units off-grid backup, maximum 300kW/645kWh
- Support up to 20 units on-grid in parallel, maximum 2MW/4.3MWh
- Support up to 10 units off-grid in parallel, maximum 1MW/2.15MWh

Reliable

- Support 1.1 times overload for long-term operation
- Balancing solutions effectively extend battery cycle life
- Triple auxiliary power design ensures stable power supply
- Operating temperature: -20°C ~ 55°C
- IP54 and C5 enclosure protection rating
- Operate at altitudes up to 3000 meters

Technical Data



Deye MS-G215-2H2 | Battery energy storage system, supporting on and off grid operation

System Specification

AC Output Power (kW)	100
AC Output Frequency and Voltage	50 / 60Hz; 380 / 400Vac
Grid Type	3L / N / PE
Battery Operating Voltage (Vd.c.)	660~864
Energy (kWh)	215
Dimension (W × D × H, mm)	1765 × 1000 × 2500
Weight Appr. (kg)	2700
Battery Operating Voltage (Vd.c.)	DC : 600 ~ 935 (grid on) / DC : 700 ~ 935 (grid off)
Max. RTE	88%
System Communication	ETH / 4G
System Operating Temperature Range (°C)	-20 ~ 45 (>45 Derating)
Max. Working Altitude (m)	≤3000
IP Rating of Enclosure	IP54
Anti-Corrosion Grade	≤C5
System Certification	UN3536, IEC 61000, IEC 62477, IEC 60730
Warranty	10 years or Cycle Life≥6000 (@25°C±2°C, 0.5C / 0.5C, 70%EOL)

Converter Specification

AC Output Rated Current (A)	152
Max. AC Output Current (A)	167
Max.Number of Parallel (off-grid)	10 pcs (off-gird)
Peak Power	1.1 time of rated power
Power Factor	-1 ~ 1
THD	<3%
DC Injection Current	<0.5In
Display	LCD
Relative Humidity	15% ~ 85% (No Condensing)
Dimension (W × D × H, mm)	506 × 772 × 310
Communication	CAN ,RS485, ETH
Overvoltage Protection	DC Type II / AC Type II
Protection Level	Class 1
Grid Regulation	EN50549, AS4777.2, CEI 0-21, CEI-016, NRS097
Max. Efficiency	97.6%

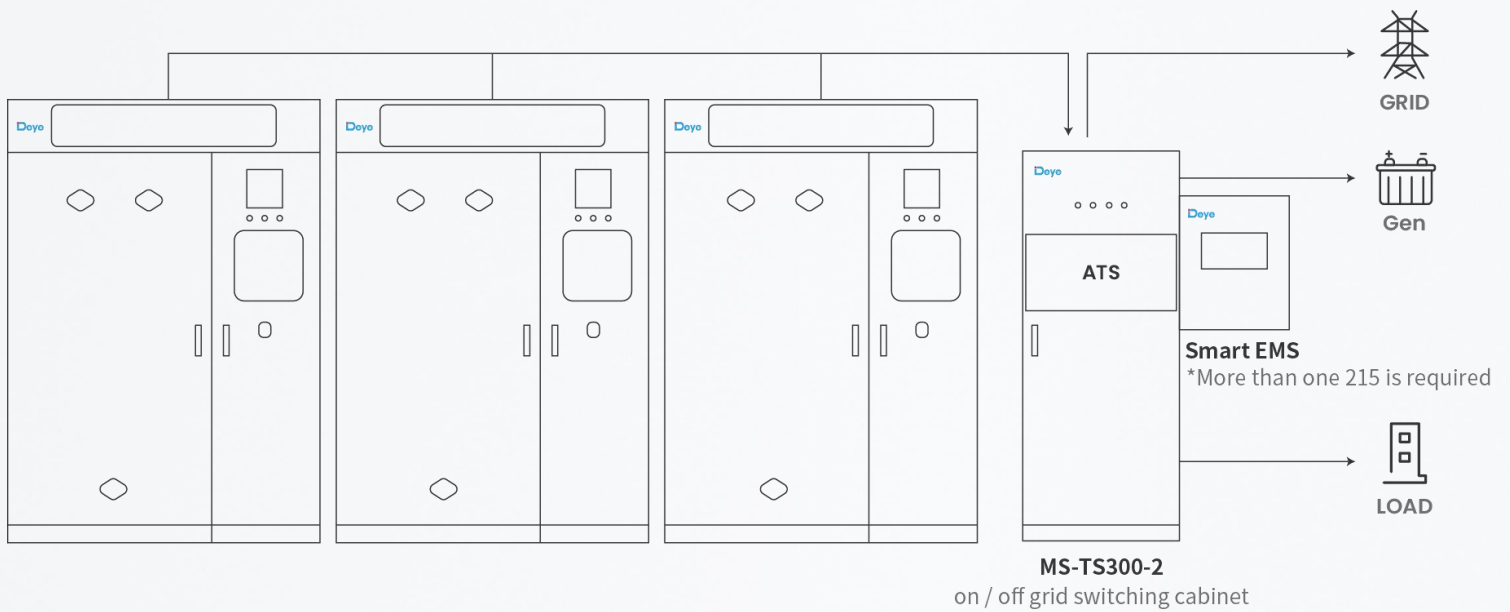
Versatile C&I Energy Storage Solutions



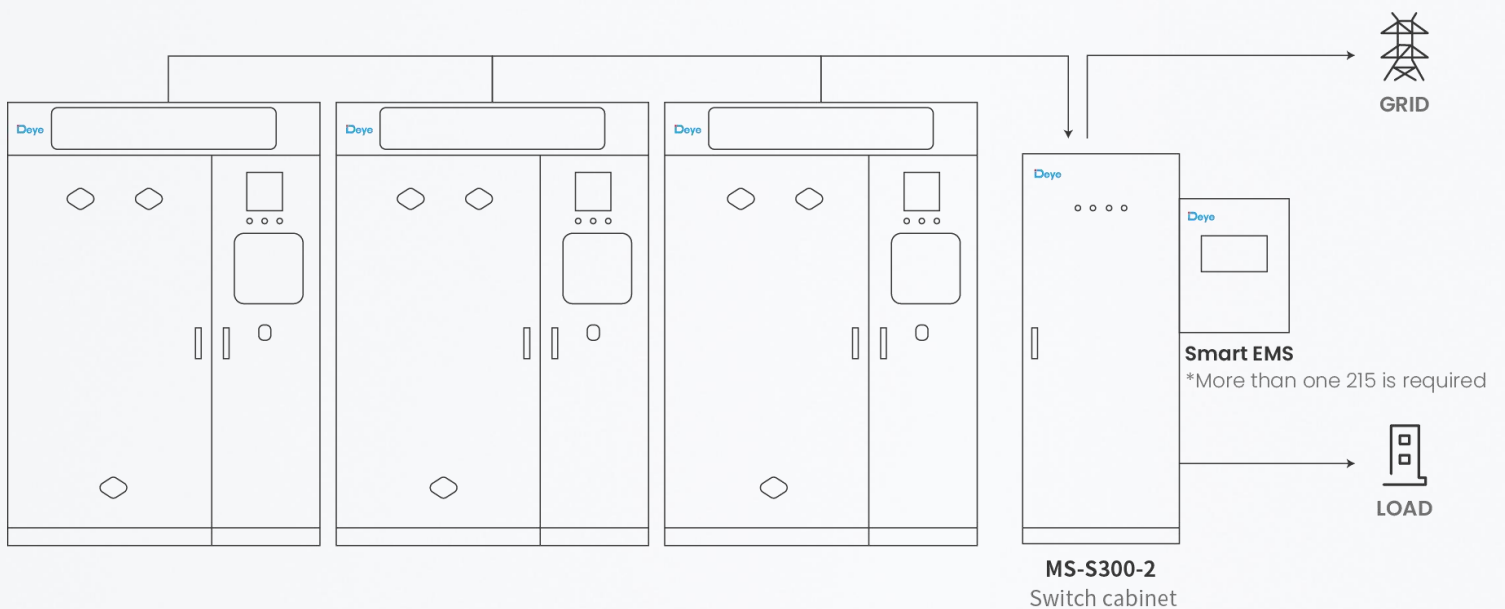
Deye MS-G215-2H2

RW-M6.1

Battery storage on-grid back up solution



Battery storage on-grid solution



Technical Data



Deye MS-GS215-2H2 | Solar & Battery energy storage system, supporting on and off grid operation

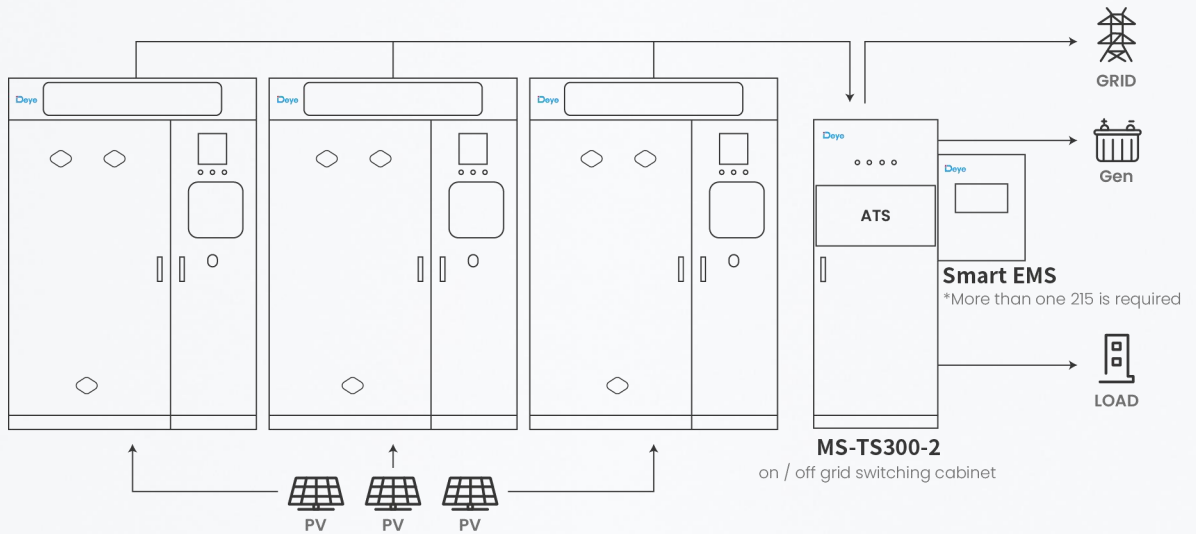
System Specification	AC Output Power (kW)	100
	AC Output Frequency and Voltage	50 / 60Hz; 380 / 400Vac
	PV Input Power (kWp)	150
	Grid Type	3L / N / PE
	Battery Operating Voltage (Vd.c.)	660~864
	Energy (kWh)	215
	Dimension (W × D × H, mm)	1765 × 1000 × 2500
	Weight Appr. (kg)	2732
	Battery Operating Voltage (Vd.c.)	DC : 600 ~ 935 (grid on) / DC : 700 ~ 935 (grid off)
	Max. RTE	88%
	System Communication	ETH / 4G
	System Operating Temperature Range (°C)	-20 ~ 45 (>45 Derating)
	Max. Working Altitude (m)	≤3000
	IP Rating of Enclosure	IP54
	Anti-Corrosion Grade	≤C5
	System Certification	UN3536, IEC 61000, IEC 62477, IEC62109, IEC 60730
	Warranty	10 years or Cycle Life≥6000 (@25°C±2°C, 0.5C / 0.5C, 70%EOL)
	Converter Specification	AC Output Rated Current (A)
Max. AC Output Current (A)		167
Max. Number of Parallel (off-grid)		10 pcs (off-grid)
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THD		<3%
DC Injection Current		<0.5In
Display		LCD
Relative Humidity		15% ~ 85% (No Condensing)
Dimension (W × D × H, mm)		506 × 772 × 310
Communication		CAN ,RS485, ETH
Overvoltage Protection		DC Type II / AC Type II
Protection Level		Class 1
Grid Regulation		EN50549, AS4777.2, CEI 0-21, CEI-016, NRS097
Max. Efficiency	97.6%	
PV Specification	Out Rated Power (kWp)	100
	Max. Input Voltage (V)	1000
	Start Voltage (V)	200
	MPPT Voltage Range (V)	180 ~ 880
	Full Load Voltage Range (V)	450 ~ 850
	Number of MPPT	6 pcs
	MPPT Max.Current / Short Current (A)	40 / 60
	Dimension (W × D × H, mm)	440 × 610 × 178
	Weight Appr. (kg)	32

Versatile C&I Energy Storage Solutions

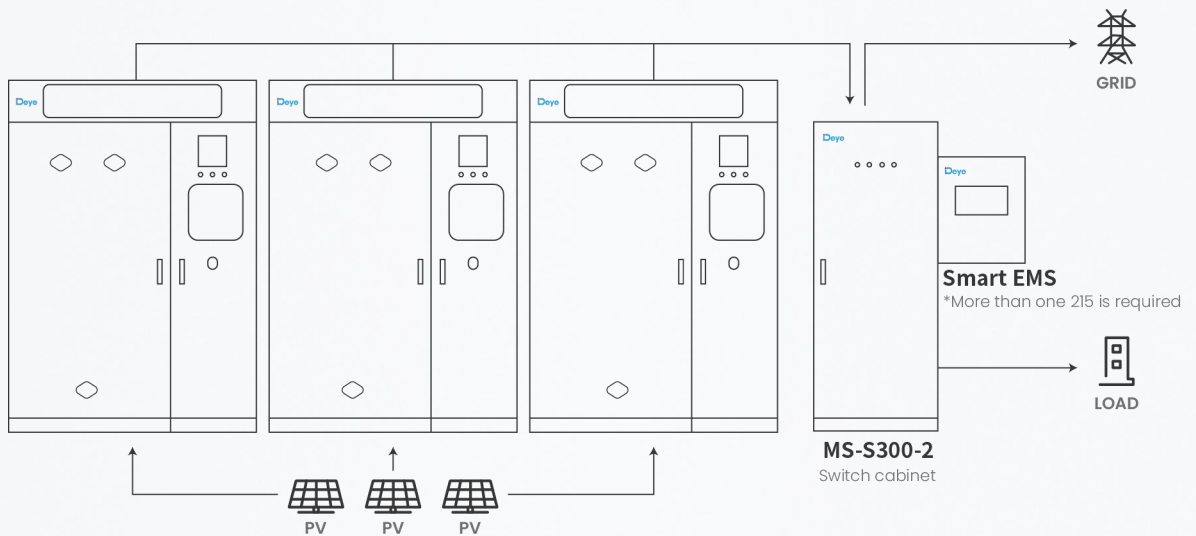


Deye MS-GS215-2H2

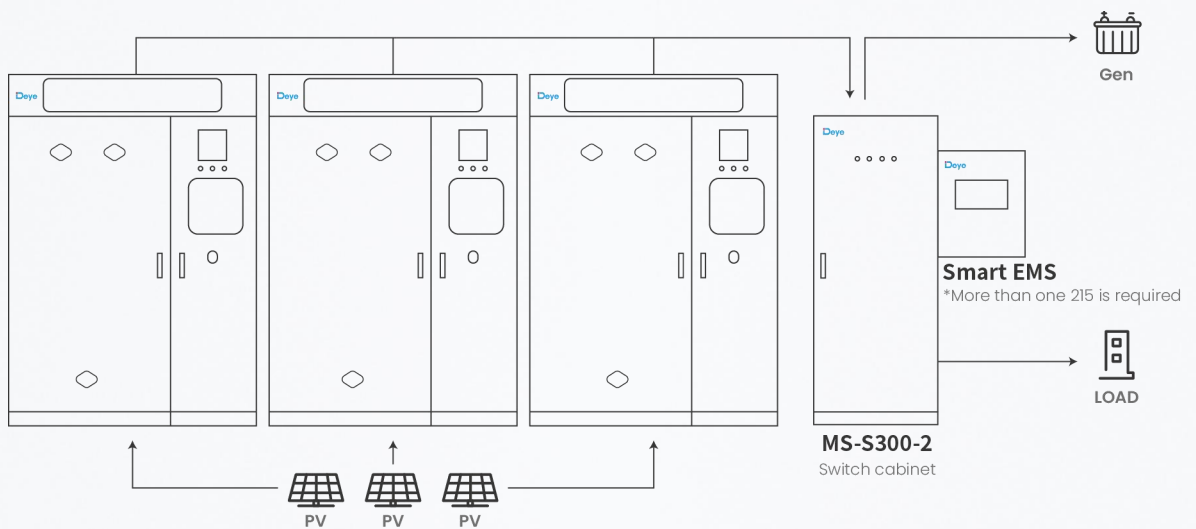
Solar & battery energy storage on-grid back up solution



Solar & battery energy storage on-grid solution



Solar & battery energy storage off-grid solution



Technical Data



Deye MS-TS300 | <20ms off-grid switching and diesel generator & backup load access

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Basic Parameters	Rated Insulation Voltage (V)	DC1000
	Rated Working Voltage (V)	AC400
	Auxiliary Equipment Operating Voltage (V)	AC220, DC24
	Rated Current of Busbar (A)	500
	Rated Current of Branch Busbar (A)	200
	Frequency	50Hz
	Load Rated Power (kW)	300
	Grid Rated Power (kW)	300
	Rated Power of Oil Engine (kW)	300
	Switching Time	20ms
	Dimension (W × D × H, mm)	1000 × 1000 × 2365
	Weight Appr. (kg)	≤600kg
	System Operating Temperature Range	-30°C ~ 50°C
	Max. Working Altitude (m)	≤3000m
IP Rating of Enclosure	IP54	

Deye MS-S300 | 3 units of 100kw/215KWh access

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Basic Parameters	Rated Insulation Voltage (V)	DC1000
	Rated Working Voltage (V)	AC400
	Auxiliary Equipment Operating Voltage (V)	AC220, DC24
	Rated Current of Busbar (A)	500
	Rated Current of Branch Busbar (A)	200
	Frequency	50Hz
	Load Rated Power (kW)	300
	Grid Rated Power (kW)	300
	Dimension (W × D × H, mm)	1000 × 1000 × 2365
	Weight Appr. (kg)	≤550kg
	System Operating Temperature Range	-20°C ~ 50°C
	Max. Working Altitude (m)	≤3000m
	IP Rating of Enclosure	IP54



AI Intelligence

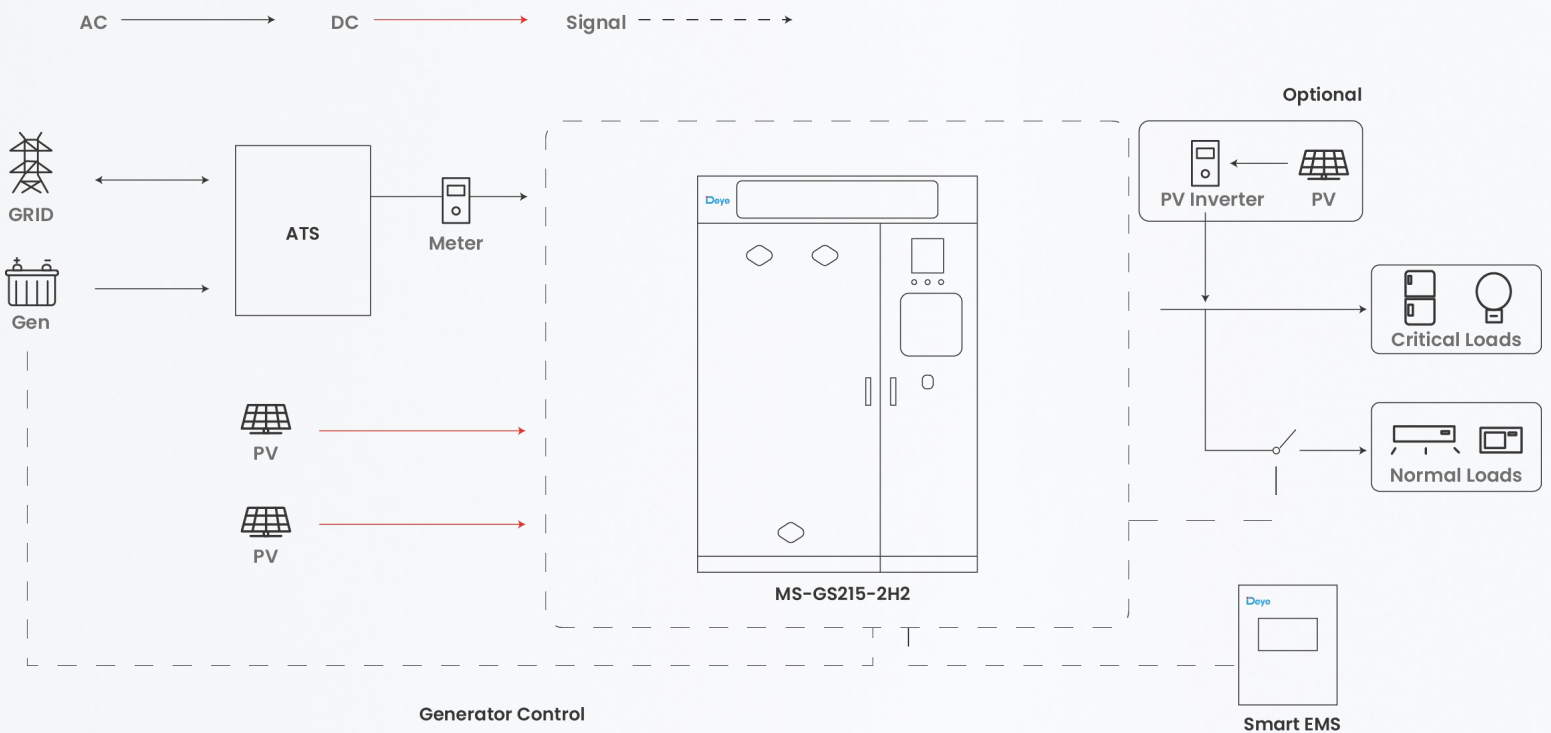
- Large capacity energy aggregation
- Real-time electricity price revenue calculation
- One click generation of statistical charts
- Maximum profit charging and discharging strategy

Efficient Operation and Maintenance

- Provide local/cloud operation and maintenance to ensure stable device operation
- Combination of multiple operation and maintenance methods for WEB/APP

Safe and Reliable

- Real-time alarm for equipment malfunction
- Support SOC balance management



Technical Data



Deye MS-EMS

System	Configuration	EMS controller, lightning protection module, switch power supply, UPS module, switch
	Single Point Access Capacity	Energy storage : $\leq 3.44\text{MWh}$ Photovoltaic : $\leq 1.6\text{MWp}$
	Function	Basic functions : peak valley arbitrage, anti backflow, main transformer overload protection, load tracking, demand control, backup power function, phase separation control, SOC balancing, Deye Cloud monitoring Advanced features : load forecasting, production planning, electricity price planning, optimal economic curve
Communicate	Ethernet (5 channels)	10/100/1000 Mbps
	Guangkou (2 channels)	1Gbps
	USB (2 channels)	Host
	CAN (3 channels)	Isolation, with 2 channels supporting CAN-FD
	RS485 (8 channels)	Isolation
	RS232 (3 channels)	2 isolated channels, 1 non isolated debugging channel (DB9 socket)
	TF Card (1 channel)	Standard TF card holder
	LVDS (1 channel)	The physical interface is DVI (including 1 USB for touch)
	M. 2 Interfaces (1 channel)	PCIe2.0 X1, Scalable SSD (standard 1TB)
	MiniPCIe Interface (1 channel)	4G card with expandable USB communication protocol (standard)
	Nano SIM Interface (1 channel)	Used in conjunction with the miniPCIe expansion 4G module
	DI (17 channels)	Optocoupler isolation
	DO (8 channels)	Relay isolation
	WLAN	802.11 b/AC g n, HT 20 / 40, 2.4 GHz 5 Ghz
	4G Antenna	Support multi country frequency bands
Power Supply	Communication Input	220Vac
	DC IN	24Vdc
	UPS Backup Power	24Vdc
	Consumption	Max 25W
Environmental parameters	Operation Temperature	-15°C ~ +50°C
	Storage Temperature	-15°C ~ +50°C
	Working Humidity	5% ~ 95%
	Max. Working Altitude (m)	$\leq 3000\text{m}$
	IP Rating of Enclosure	IP54
	Anti-Corrosion Grade	$\geq \text{C4}$
Mechanical parameters	Dimension (W × D × H, mm)	488 × 188 × 588
	Weight Appr. (kg)	$\leq 24.5\text{kg}$
	Installation Location	Indoor or outdoor, wall-mounted
	Box Material	Metal
	Incoming Specifications	AC power cord: Recommended wire diameter 1.5mm ² DC power cord: Recommended wire diameter of 1.5mm ² Eight core Ethernet cable: Recommended CAT5e Ethernet cable RS485: Recommended 0.75mm ² ~1.5mm ² outdoor UV protection with shielding layer twisted pair cable length<1000m (baud rate 9600)