

ENERGY STORAGE SYSTEMS

Gestión de Compras offers advanced energy storage system solutions for photovoltaic systems. Our energy storage systems (ESS) are designed to provide efficiency, reliability and flexibility, enabling optimized management of energy generated by solar sources. With a focus on innovation and sustainable development, our products are backed by cutting-edge technology, strong production capabilities and a commitment to quality.

We have high and low voltage products, with energy storage capacities ranging from 5 kWh to 25 kWh or from 50kWh to 500kWh. On the other hand, by configuring our battery storage systems, we can significantly expand capacity. In our factories we have different state-of-the-art automation lines that allow us an annual production capacity of 5GWh, ensuring quality to our customers at all times.

5.0 + GWh

Annual production capacity



30%

Employees of R&D



300+

Company employees



48~1000 V

Flexible battery solutions



150,000+

Installed in the world



50+

Patents in the ESS field



P-01





MANA 5.0



MANA 5.3



MANA 10.6



MANA 16.0

[More Usable Energy]

100% Depth of Discharge

[Flexible Investment]

Up to 15 units in parallel

[Easy Installation]

Floor stand or wall mounted

[Quick Commissioning]

One button ON/OFF
Automatic ID assignment

[Safe & Reliable]

Premium Lithium Iron Phosphate(LFP)
6000 cycles

[Perfect Compatibility]

Compatible with major PCS brands

DATASHEET

Model	MANA 5.0	MANA 5.3	MANA 10.6	MANA 16.0
Performance				
Cell technology	LFP (LiFePO4)	LFP (LiFePO4)	LFP (LiFePO4)	LFP (LiFePO4)
Battery usable energy [1]	5.120 kWh	5.324 kWh	10.649 kWh	15.974 kWh
Nominal voltage	51.2 V	51.2 V	51.2 V	51.2 V
Operating voltage	45.6 - 56.16 V	45.6 - 56.16 V	45.6 - 56.16 V	45.6 - 56.16 V
Nominal output current	50 A / 100 A	50 A / 100 A	100 A / 200 A	150 A / 300 A
BMS protection current	110 A, 1 s	110 A, 1 s	210 A, 1 s	310 A, 1 s

Communication	
Display	SOC status indicator, LED indicator
Communication	CAN / RS485 / RS232

General Specification	
Dimension (W*D*H)	450x150x533 mm 17.7x5.9x20.9 inch 15.5 kg (99 lbs) 550x160x836 mm 21.6x6.3x32.9 inch 89 kg (196 lbs) 720x160x916 mm 28.3x6.3x36.1 inch 130 kg (287 lbs)
Weight	-20 to 60°C (-4 to 140°F)
Installation	≤ 95%RH (No condensation)
Operating temperature [2]	IP 20
Environmental humidity	6000 Cycles @ 80% DOD / 25°C / 0.5C, 60% EOL
Protection rating	Max 15 batteries in parallel
Cycle life [3]	ON Grid / ON Grid + Backup / OFF grid
Scalability	Refer to compatible inverter list (Compatible with major PCS brands)
Application	Compatible inverters

Standard Compliance	
Certificates	Cell: UN38.3 / IEC62619 / UL 1642 / JET Battery pack: UN38.3 / IEC62619 / IEC61000 / UKCA (More available upon request)

Ordering and Deliverable Part				
	MANA 5.0 Battery	MANA 5.3 Battery	MANA 10.6 Battery	MANA 16.0 Battery
	MANA 5.0 Parallel cable	MANA 5.3 Parallel cable	MANA 10.6 Parallel cable	MANA 16.0 Parallel cable
	MANA 5.0 to PCS cable	MANA 5.3 to PCS cable	MANA 10.6 to PCS cable	MANA 16.0 to PCS cable

[1] Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25°C.

[2] Charge/discharge derating occurs when the operating temperature from -10°C to 5°C & 45°C to 55°C.

[3] Please refer to the Warranty Letter for applicable conditions.



[More Usable Energy]

100% Depth of Discharge

[Flexible Investment]

Up to 15 units in parallel

[Easy Installation]

Floor stand or wall mounted

[Quick Commissioning]

One button ON/OFF
Automatic ID assignment

[Safe & Reliable]

Premium Lithium Iron Phosphate(LFP)
6000 cycles

[Perfect Compatibility]

Compatible with major PCS brands

DATASHEET

Model	MANA 5.0 Pro	MANA 5.3 Pro
Performance		
Cell technology	LFP (LiFePO4)	LFP (LiFePO4)
Battery usable energy [1]	5.120 kWh	5.324 kWh
Nominal voltage	51.2 V	51.2 V
Operating voltage	45.6 - 56.16 V	45.6 - 56.16 V
Nominal output current	50 A / 100 A	50 A / 100 A
BMS protection current	110 A, 1 s	110 A, 1 s
Communication		
Display	SOC status indicator, LED indicator	
Communication	CAN / RS485 / RS232 / Wi-Fi	
General Specification		
Dimension (W*D*H)	460x160x613 mm 18.1x6.3x24.1 inch	460x160x613 mm 18.1x6.3x24.1 inch
Weight	48 kg (106 lbs)	50 kg (110 lbs)
Installation	Floor stand or Wall mounted	
Operating temperature [2]	-20 to 60°C (-4 to 140°F)	
Environmental humidity	≤ 95%RH (No condensation)	
Protection rating	IP 55	
Cycle life [3]	6000 Cycles @ 80% DOD / 25°C / 0.5C, 60% EOL	
Scalability	Max 15 batteries in parallel	
Application	ON Grid / ON Grid + Backup / OFF grid	
Compatible inverters	Refer to compatible inverter list (Compatible with major PCS brands)	
Standard Compliance		
Certificates	Cell: UN38.3 / IEC62619 / UL 1642 / JET Battery pack: UN38.3 / IEC62619 / IEC61000 / UKCA (More available upon request)	
Ordering and Deliverable Part		
Part	MANA 5.0 Pro Battery MANA 5.0 Pro Parallel cable MANA 5.0 Pro to PCS cable	MANA 5.3 Pro Battery MANA 5.3 Pro Parallel cable MANA 5.3 Pro to PCS cable

[1] Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25°C.

[2] Charge/discharge derating occurs when the operating temperature from -10°C to 5°C & 45°C to 55°C.

[3] Please refer to the Warranty Letter for applicable conditions.



[More Usable Energy]

100% Depth of Discharge

[Flexible Investment]

Up to 15 units in parallel

[Easy Installation]

Floor stand or wall mounted

[Quick Commissioning]

One button ON/OFF
Automatic ID assignment

[Safe & Reliable]

Premium Lithium Iron Phosphate(LFP)
6000 cycles

[Perfect Compatibility]

Compatible with major PCS brands

DATASHEET

Model	MANA 5.12-S
-------	-------------

Performance

Cell technology	LFP
Battery usable energy [1]	(LiFePO4)
Nominal voltage	5.12 kWh
Operating voltage	51.2 V 55.2-
Nominal output current	56.16 V 50 A
BMS protection current	/ 100 A 110 A, 1 s

Communication

Display	SOC status indicator, LED indicator
Communication	CAN / RS485 / RS232 / Wi-Fi

General Specification

Dimension (W*D*H)	460×161.5×614 mm 18.1×6.4×24.2 inch
Weight	47 kg (104 lbs)
Installation	Floor stand or Wall mounted
Operating temperature [2]	-20 to 60°C (-4 to 140°F)
Environmental humidity	≤ 95%RH (No condensation)
Protection rating	IP 20
Cycle life [3]	6000 Cycles @ 80% DOD / 25°C / 0.5C, 60% EOL
Scalability	Max 15 batteries in parallel
Application	ON Grid / ON Grid + Backup / OFF grid
Compatible inverters	Refer to compatible inverter list (Compatible with major PCS brands)

Standard Compliance

Certificates	Cell: UN38.3 / IEC62619 / UL 1642 / JET Battery pack: UN38.3 / IEC62619 / IEC61000 / UKCA (More available upon request)
--------------	--

Ordering and Deliverable Part

Part	MANA 5.12-S Battery MANA 5.12-S Parallel cable MANA 5.12-S to PCS cable
------	---

[1] Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25°C.

[2] Charge/discharge derating occurs when the operating temperature from -10°C to 5°C & 45°C to 55°C.

[3] Please refer to the Warranty Letter for applicable conditions.



[More Usable Energy]

100% Depth of Discharge

[Flexible Investment]

Up to 15 units in parallel

[Easy Installation]

Floor stand or wall mounted

[Quick Commissioning]

One button ON/OFF
Automatic ID assignment

[Perfect Compatibility]

Compatible with major PCS brands

[Safe & Reliable]

Premium Lithium Iron Phosphate(LFP)
6000 cycles

DATASHEET

Model	MANA 14.33
--------------	-------------------

Performance

Cell technology	LFP (LiFePO4)
Battery usable energy [1]	14.33 kWh
Nominal voltage	51.2 V
Operating voltage	45.6 - 56.16 V
Nominal output current	140 A / 280 A
BMS protection current	600 A, 300 μs

Communication

Display	SOC status indicator, LED indicator
Communication	CAN / RS485 / RS232 / Wi-Fi

General Specification

Dimension (W*D*H)	800x250x839 mm 31.5x9.8x33.0 inch 145 kg (320 lbs) Floor stand or Wall mounted -20 to 60°C (-4 to 140°F) ≤
Weight	95%RH (No condensation) IP 20 6000 Cycles @ 80% DOD /
Installation	25°C / 0.5C, 60% EOL Max 15 batteries in parallel ON Grid /
Operating temperature [2]	ON Grid + Backup / OFF grid Refer to compatible inverter list
Environmental humidity	(Compatible with major PCS brands)
Protection rating	
Cycle life [3]	
Scalability	
Application	
Compatible inverters	

Standard Compliance

Certificates	Cell: UN38.3 / IEC62619 / UL 1642 / JET Battery pack: UN38.3 / IEC62619 / IEC61000 / UKCA (More available upon request)
---------------------	--

Ordering and Deliverable Part

Part	MANA 14.33 Battery MANA 14.33 Parallel cable MANA 14.33 to PCS cable
-------------	--

[1] Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25°C.

[2] Charge/discharge derating occurs when the operating temperature from -10°C to 5°C & 45°C to 55°C.

[3] Please refer to the Warranty Letter for applicable conditions.


[More Usable Energy]

100% Depth of Discharge

[Flexible Investment]

 Modular design
Max 15 batteries in parallel

[Easy Installation]

Rack / Wall / Cabinet-mounted

[Quick Commissioning]

Automatic ID assignment

[Safe & Reliable]

 Premium Lithium Iron Phosphate(LFP)
6000 cycles

[Perfect Compatibility]

Compatible with major PCS brands

DATASHEET

Model	RT 2560	RT 5120	RT 5320	RT 10.49
-------	---------	---------	---------	----------

Performance

Cell technology Battery	LFP (LiFePO4)			
usable energy [1]	2.560 kWh	5.120 kWh	5.324 kWh	10.490 kWh
Nominal voltage	51.2 V	51.2 V	51.2 V	51.2 V
Operating voltage	45.6 - 56.16 V	45.6 - 56.16 V	45.6 - 56.16 V	45.6 - 56.16 V
Nominal output current	25 A / 50 A	50 A / 100 A	52A / 104 A	102.5 A / 205 A
BMS protection current	110 A, 1 s	110 A, 1 s	110 A, 1 s	210 A, 1 s

Communication

Display	SOC status indicator, LED indicator
Communication	CAN / RS485 / RS232

General Specification

Dimension (W*D*H)	440×480×115 mm	440×550×130 mm	440×550×130 mm	440×600×220 mm
	17.32×18.90×4.53 inch	17.3×21.6×5.12 inch	17.3×21.6×5.12 inch	17.32×23.6×8.66 inch
Weight	30 kg (66 lbs)	45 kg (99 lbs)	46 kg (101 lbs)	80 kg (176 lbs)
Installation	Rack / Wall / Cabinet-Mounted			
Operating temperature [2]	-20 to 60°C (-4 to 140°F)			
Environmental humidity	≤ 95%RH (No condensation)			
Protection rating	IP 20			
Cycle life [3]	6000 Cycles @ 80% DOD / 25°C / 0.5C, 60% EOL			
Scalability	Max 15 batteries in parallel			
Application	ON Grid / ON Grid + Backup / OFF grid			
Compatible inverters	Refer to compatible inverter list (Compatible with major PCS brands)			

Standard Compliance

Certificates	Cell: UN38.3 / IEC62619 / UL 1642 / JET
	Battery pack: UN38.3 / IEC62619 / IEC61000 / UKCA (More available upon request)

Ordering and Deliverable Part

Part	RT 2560 Battery RT	RT 5120 Battery	RT 5320 Battery	RT 10.49 Battery
	2560 Parallel cable	RT 5120 Parallel cable	RT 5320 Parallel cable	RT 10.49
	RT 2560 to PCS cable	RT 5120 to PCS cable	RT 5320 to PCS cable	Parallelcable RT 10.49 to PCS cable

[1] Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25°C.

[2] Charge/discharge derating occurs when the operating temperature from -10°C to 5°C & 45°C to 55°C.

[3] Please refer to the Warranty Letter for applicable conditions.



[More Usable Energy]
100% Depth of Discharge

[Flexible Investment]
5.12 / 5.32 kWh modular design
Max 12 modules per stack, 4 stacks in parallel

[Easy Installation]
Quick plug design,
easy wiring

[Quick Commissioning]
One button ON/OFF
Automatic ID assignment

[Safe & Reliable]
Cobalt Free Lithium Iron Phosphate (LFP)
battery has maximum safety and 6000 cycles

[Perfect Compatibility]
Compatible with leading PCS brands

DATASHEET

Model	RT 5.12-H4	RT 5.12-H5	RT 5.12-H6	RT 5.12-H7	RT 5.12-H8	RT 5.12-H9	RT 5.12-H10	RT 5.12-H11	RT 5.12-H12
	RT 5.32-H4	RT 5.32-H5	RT 5.32-H6	RT 5.32-H7	RT 5.32-H8	RT 5.32-H9	RT 5.32-H10	RT 5.32-H11	RT 5.32-H12

Performance									
Cell technology	LFP (LiFePO4)								
Number of modules	4	5	6	7	8	9	10	11	12
Battery usable energy [1]	20.48 kWh	25.6 kWh	30.72 kWh	35.84 kWh	40.96 kWh	46.08 kWh	51.2 kWh	56.32 kWh	61.44 kWh
Nominal voltage	393.12 V	444.0 V	494.4 V	544.8 V	595.2 V	645.6 V	696.0 V	746.4 V	796.8 V
Operating voltage	104 A (1C)	256 V	kWh	kWh	kWh	460.8 V	512 V	kWh	kWh
Max output current									
Charge/Discharge current	50 A / 100 A 52 A / 104 A								

Communication	
Display	SOC status indicator, LED indicator
Communication	CAN / RS485 / RS232
Functions	Remote upgrade, EMS, Real-time monitoring of local data

General Specification	
Dimension (W*D*H)	620x630x2220 mm
Weight	27.6 kg (61.0 lbs) 32.7 kg (72.3 lbs) 37.8 kg (83.3 lbs) 42.9 kg (94.6 lbs) 48.0 kg (105.8 lbs) 53.1 kg (117.0 lbs) 58.2 kg (128.3 lbs) 63.3 kg (139.5 lbs) 68.4 kg (150.7 lbs) 73.5 kg (161.9 lbs)
Installation	Floor stand
Operating temperature [2]	-20 to 60°C (-4 to 140°F)
Environmental humidity	≤ 95%RH (No condensation)
Protection rating	IP 20
Cycle life [3]	6000 Cycles @ 80% DOD / 25°C / 0.5C, 60% EOL
Scalability	Max 12 modules per stack, 4 stacks in parallel
Application	ON Grid / ON Grid + Backup / OFF grid
Compatible inverters	Refer to compatible inverter list (Compatible with major PCS brands)

Standard Compliance	
Certificates	UN38.3 / IEC62619 / IEC62040-1 (More available upon request)

Ordering and Deliverable Part									
Part	RT-5.12-QC-								
	A RT-5.32-								
	QC-A	RT-BCU-M-25.60-QC	RT-BCU-M-30.72-QC	RT-BCU-M-35.84-QC	RT-BCU-M-40.96-QC	RT-BCU-M-46.08-QC	RT-BCU-M-51.20-QC	RT-BCU-M-56.32-QC	RT-BCU-M-61.44-QC
	BCU-M-20.48-QC	RT-BCU-M-26.62-QC	RT-BCU-M-31.94-QC	RT-BCU-M-37.27-QC	RT-BCU-M-42.59-QC	RT-BCU-M-47.92-QC	RT-BCU-M-53.24-QC	RT-BCU-M-58.57-QC	RT-BCU-M-63.89-QC

[1] Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25°C.
 [2] Charge/discharge derating occurs when the operating temperature from -10°C to 5°C & 45°C to 55°C.
 [3] Please refer to the Warranty Letter for applicable conditions.



[More Usable Energy]

100% Depth of Discharge

[Flexible Investment]

2.5 kWh modular design
Max 10 modules per stack, 4 stacks in parallel

[Easy Installation]

Internal plug design and
no additional wiring

[Quick Commissioning]

One button ON/OFF
Automatic ID assignment

[Perfect Compatibility]

Compatible with leading PCS brands

[Safe & Reliable]

Cobalt Free Lithium Iron Phosphate (LFP) battery
has maximum safety and 6000 cycles

DATASHEET

Model	GDCCHA 2.5-H4	GDCCHA 2.5-H5	GDCCHA 2.5-H6	GDCCHA 2.5-H7	GDCCHA 2.5-H8	GDCCHA 2.5-H9	GDCCHA 2.5-H10
-------	---------------	---------------	---------------	---------------	---------------	---------------	----------------

Performance

Battery module (Wh/V)	2.56 kWh, 51.2 V, 30 kg (67 lbs)						
Number of modules Cell technology Battery	4	5	6	7	8	9	10
usable energy [1]	10.24 kWh	12.8 kWh	15.36 kWh	17.92 kWh	20.48 kWh	23.04 kWh	25.60 kWh
Nominal voltage	204.8 V	256.0 V	307.2 V	358.4 V	409.6 V	460.8 V	512.0 V
Operating voltage Max output current	182.40 - 224.64 V	228 - 280.8 V	273.6 - 336.96 V	319.2 - 393.12 V	364.8 - 449.28 V	410.4 - 505.44 V	456 - 561.6 V
	25 A (0.5C)						

Communication

Display	SOC status indicator, LED indicator
Communication	CAN / RS485 / RS232

General Specification

Dimension (W*D*H)	560×359×815 mm	560×359×950 mm	560×359×1085 mm	560×359×1220 mm	560×359×1355 mm	560×359×1490 mm	560×359×1625 mm
	22.1×14.2×32.1 inch	22.1×14.2×37.4 inch	22.1×14.2×42.7 inch	22.1×14.2×48.0 inch	22.1×14.2×53.4 inch	22.1×14.2×58.7 inch	22.1×14.2×64.0 inch
Weight	160 kg (352.8 lbs)	190 kg (418.9 lbs)	220 kg (485 lbs)	250 kg (551 lbs)	280 kg (617 lbs)	310 kg (683 lbs)	340 kg (750 lbs)
Installation	Floor stand						
Operating temperature [2]	-20 to 60°C (-4 to 140°F)						
Environmental humidity	≤ 95%RH (No condensation)						
Protection rating	IP 20						
Cycle life [3]	6000 Cycles @ 80% DOD / 25°C / 0.5C, 60% EOL						
Scalability	Max 10 modules per stack, 4 stacks in parallel						
Application	ON Grid / ON Grid + Backup / OFF grid						
Compatible inverters	Refer to compatible inverter list (Compatible with major PCS brands)						

Standard Compliance

Certificates	UN38.3 / IEC62619 / IEC62040-1 (More available upon request)
---------------------	--

Ordering and Deliverable Part

Part	GDC CHA 2.5-H (Battery module)
	GDC CHA2.5-H-BCU

[1] Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25°C.

[2] Charge/discharge derating occurs when the operating temperature from -10°C to 5°C & 45°C to 55°C.

[3] Please refer to the Warranty Letter for applicable conditions.



[Overview]

Indoor battery rack with IP20 protection level, inbuilt lithium-ion battery and BMS

[Easy Installation and Maintenance]

Local and remote management, standard rack&module design, front maintenance

[High Density]

LP high-capacity Li-Ion battery with aluminum shell, over 130wh/kg

[Long Lifespan]

Long life cycle, 6000 cycles*

[Cell Balancing Technology]

Advanced cell balancing

[Safe & Reliable]

Self-developed 2-level / 3-level BMS, complex protection, safe and reliable

DATASHEET

Model	GDC-MATE 50-A	GDC-MATE 60-A	GDC-MATE 70-A
Performance			
Battery module (Wh/V)	5.12 kWh, 51.2 V, 45.9 kg (101 lbs)		
Number of modules	10	12	14
Cell technology	LFP (LiFePO4)		
Battery usable energy [1]	51.20 kWh	61.44 kWh	71.68 kWh
Nominal voltage	512.0 V	614.4 V	716.8 V
Operating voltage	456.00 - 561.60 V	547.20 - 673.92 V	638.40 - 786.24 V
Nominal output current	50 A		

Communication

Display	SOC status indicator, LED indicator
Communication	CAN / RS485 / RS232

General Specification

Dimension (W*D*H)	1410×320×1043 mm 55.5×12.6×41.1 inch	1410×320×1187 mm 55.5×12.6×46.7 inch	1410×320×1331 mm 55.5×12.6×52.4 inch
Weight	About 508 kg (1120 lbs)	About 600 kg (1323 lbs)	About 692 kg (1526 lbs)
Operating temperature [2]	-20 to 60 °C (-4 to 140 °F)		
Environmental humidity	≤ 95%RH (No condensation)		
Protection rating	IP 20		
Cycle life [3]	6000 Cycles @ 80% DOD / 25°C / 0.5C, 60% EOL		
Scalability	Yes		
Application	ON Grid / ON Grid + Backup / OFF grid		
Compatible PCS	Refer to compatible PCS list		

Standard Compliance

Certificates	Cell: UN38.3 / IEC62619 / UL 1642 / JET
	Pack: UN38.3 / IEC62619 / IEC61000
	Available upon request

Ordering and Deliverable Part

Part	GDC-MATE-5.12-QC-B (Battery module)		
	GDC-MATE-BCU-M-50-QC (Main control box)	GDC-MATE-BCU-M-60-QC (Main control box)	GDC-MATE-BCU-M-70-QC (Main control box)
	GDC-MATE-BP-5.12 (Battery pedestal)		

[1] Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25°C.

[2] Charge/discharge derating occurs when the operating temperature from -10°C to 5°C & 45°C to 55°C.

[3] Please refer to the Warranty Letter for applicable conditions.



[Overview]

Indoor battery rack with IP20 protection level, inbuild lithium-ion battery and BMS

[Easy Installation and Maintenance]

Local and remote management, standard rack&module design, front maintenance

[High Density]

LP high-capacity Li-ion battery with aluminum shell, over 130wh/kg

[Long Lifespan]

Long cycle life, 6000 cycles *

[Safe & Reliable]

Self-developed 2-level / 3-level BMS, complex protection, safe and reliable

[Cell Balancing Technology]

Advanced cell balancing

DATASHEET

Model	GDC-MATE 80
Performance	
Battery module (Wh/V)	6.144 kWh, 51.2 V, 64 kg (141 lbs)
Number of modules Cell	13
technology Battery	LFP (LiFePO4)
usable energy [1]	79.87 kWh
Nominal voltage	665.6 V
Operating voltage	592.8 - 730.08 V
Nominal output current	48 A
Communication	
Display	SOC status indicator, LED indicator
Communication	CAN / RS485 / RS232
General Specification	
Dimension (W*D*H)	2420×305×1150 mm 95.3×12×45.3 inch
Weight	About 886 kg (1953 lbs)
Operating temperature [2]	-20 to 60°C (-4 to 140°F)
Environmental humidity	≤ 95%RH (No condensation)
Protection rating	IP 20
Cycle life [3]	6000 Cycles @ 80% DOD / 25°C / 0.5C, 60% EOL
Scalability	Yes
Application	ON Grid / ON Grid + Backup / OFF grid
Compatible PCS	Refer to compatible PCS list
Standard Compliance	
Certificates	Cell: UN38.3 / IEC62619 / UL 1642 / JET Pack: UN38.3 / IEC62619 / IEC61000 Available upon request
Ordering and Deliverable Part	
	GDC-MATE-6.1P-OT (Battery module) GDC-MATE-BCU-080H1-OT (Main control box) GDC-MATE-6.1BP (Battery pedestal)

[1] Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25°C.

[2] Charge/discharge derating occurs when the operating temperature from -10°C to 5°C & 45°C to 55°C.

[3] Please refer to the Warranty Letter for applicable conditions.



[Overview]

Indoor battery rack with IP20 protection level, inbuild lithium-ion battery and BMS

[Easy Installation and Maintenance]

Local and remote management, standard rack&module design, front maintenance

[High Density]

LP high-capacity Li-ion battery with aluminum shell, over 130wh/kg

[Long Lifespan]

Long cycle life, 6000 cycles *

[Cell Balancing Technology]

Advanced cell balancing

[Safe & Reliable]

Self-developed 2-level / 3-level BMS, complex protection, safe and reliable

DATASHEET

Model	GDC-MATE 114R	GDC-MATE 129R	GDC-MATE 143R
-------	---------------	---------------	---------------

Performance

Battery module (Wh/V)	14.336 kWh, 51.2 V, 110 kg (242.5 lbs)		
Number of modules Cell	8	9	10 LFP
technology Battery	LFP (LiFePO4)	LFP (LiFePO4)	(LiFePO4)
usable energy [1]	114.688 kWh	129.024 kWh	143.36 kWh
Nominal voltage	409.6 V	460.8 V	512 V 456 -
Operating voltage	364.8 - 449.28 V	410.4 - 505.44 V	561.6 V 140
Nominal output current	140 A / 280 A	140 A / 280 A	A / 280 A

Communication

Display	SOC status indicator, LED indicator, LCD display		
Communication	Ethernet / CAN / RS485		

General Specification

Dimension (W*D*H)	1164×840×1776 mm 45.8×33.1×69.9 inch		
Weight	1130 kg (2491 lbs)	1240 kg (2734 lbs)	1350 kg (2976 lbs)
Operating temperature [2]	-20 to 60°C (-4 to 140°F)		
Environmental humidity	≤ 95%RH (No condensation)		
Protection rating	IP 20		
Cycle life [3]	6000 Cycles @ 80% DOD / 25°C / 0.5C, 60% EOL		
Scalability	Yes		
Application	ON Grid / ON Grid + Backup / OFF grid		
Compatible PCS	Refer to compatible PCS list		

Standard Compliance

Certificates	Cell: UN38.3 / IEC62619 / UL 1642 / JET		
	Pack: UN38.3 / IEC62619 / IEC61000		
	System: UL 9540 (More available upon request)		

Ordering and Deliverable Part

Part	GDC-MATE-14.3-QC		
	GDC-MATE-BCU-M-114-QC	GDC-MATE-BCU-M-129-QC	GDC-MATE-BCU-M-143-QC
	GDC-MATE-R12		

[1] Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25°C.

[2] Charge/discharge derating occurs when the operating temperature from -10°C to 5°C & 45°C to 55°C.

[3] Please refer to the Warranty Letter for applicable conditions.



[Overview]

Indoor battery rack with IP20 protection level, inbuild lithium-ion battery and BMS

[Easy Installation and Maintenance]

Local and remote management, standard rack&module design, front maintenance

[High Density]

LP high-capacity Li-ion battery with aluminum shell, over 130wh/kg

[Long Lifespan]

Long cycle life, 6000 cycles *

[Safe & Reliable]

Self-developed 2-level / 3-level BMS, complex protection, safe and reliable

[Cell Balancing Technology]

Advanced cell balancing

DATASHEET

Model	GDC-MATE 157R	GDC-MATE 172R	GDC-MATE 186R
-------	---------------	---------------	---------------

Performance			
Battery module (Wh/V)	14.336 kWh, 51.2 V, 110 kg (242.5 lbs)		
Number of modules Cell	11	12	13
technology Battery	LFP (LiFePO4)	LFP (LiFePO4)	LFP (LiFePO4)
usable energy [1]	157.696 kWh	172.032 kWh	186.368 kWh
Nominal voltage	563.2 V	614.4 V	665.6 V
Operating voltage	501.6 - 617.76 V	547.2 - 673.92 V	592.8 - 730.08 V
Nominal output current	140 A / 280 A	140 A / 280 A	140 A / 280 A

Communication	
Display	SOC status indicator, LED indicator, LCD display
Communication	Ethernet / CAN / RS485

General Specification			
Dimension (W*D*H)	1721×840×1776 mm		
	66.8×33.1×69.9 inch		
Weight	1540 kg (3395 lbs)	1650 kg (3637 lbs)	1760 kg (3880 lbs)
Operating temperature [2]	-20 to 60°C (-4 to 140 °F)		
Environmental humidity	≤ 95%RH (No condensation)		
Protection rating	IP 20		
Cycle life [3]	6000 Cycles @ 80% DOD / 25°C / 0.5C, 60% EOL		
Scalability	Yes		
Application	ON Grid / ON Grid + Backup / OFF grid		
Compatible PCS	Refer to compatible PCS list		

Standard Compliance	
Certificates	Cell: UN38.3 / IEC62619 / UL 1642 / JET
	Pack: UN38.3 / IEC62619 / IEC61000
	System: UL 9540 (More available upon request)

Ordering and Deliverable Part			
Part	GDC-MATE-14.3-QC		
	GDC-MATE-BCU-M-157-QC	GDC-MATE-BCU-M-172-QC	GDC-MATE-BCU-M-186-QC
	GDC-MATE-R18		

[1] Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25°C.
 [2] Charge/discharge derating occurs when the operating temperature from -10°C to 5°C & 45°C to 55°C.
 [3] Please refer to the Warranty Letter for applicable conditions.


[Overview]

Indoor battery rack with IP20 protection level, inbuild lithium-ion battery and BMS

[Easy Installation and Maintenance]

Local and remote management, standard rack&module design, front maintenance

[High Density]

LP high-capacity Li-ion battery with aluminum shell, over 130wh/kg

[Long Lifespan]

Long cycle life, 6000 cycles *

[Cell Balancing Technology]

Advanced cell balancing

[Safe & Reliable]

Self-developed 2-level / 3-level BMS, complex protection, safe and reliable

DATASHEET

Model	GDC-MATE 200R	GDC-MATE 215R	GDC-MATE 229R
Performance			
Battery module (Wh/V)	14.336 kWh, 51.2 V, 110 kg (242.5 lbs)		
Number of modules Cell	14	15 LFP	16
technology Battery	LFP (LiFePO4)	(LiFePO4)	LFP (LiFePO4)
usable energy [1]	200.704 kWh	215.04 kWh	229.376 kWh
Nominal voltage	716.8 V	768.0 V 684	819.2 V
Operating voltage	638.4 - 786.24 V	- 842.4 V	729.6 - 898.56 V
Nominal output current	140 A / 280 A	140 A / 280 A	140 A / 280 A

Communication	
Display	SOC status indicator, LED indicator, LCD display
Communication	Ethernet / CAN / RS485

General Specification	
Dimension (W*D*H)	1721×840×1776 mm 66.8×33.1×69.9 inch
Weight	1870 kg (4122 lbs) 1980 kg (4365 lbs) 2090 kg (4608 lbs)
Operating temperature [2]	-20 to 60°C (-4 to 140 °F)
Environmental humidity	≤ 95%RH (No condensation)
Protection rating	IP 20
Cycle life [3]	6000 Cycles @ 80% DOD / 25°C / 0.5C, 60% EOL
Scalability	Yes
Application	ON Grid / ON Grid + Backup / OFF grid
Compatible PCS	Refer to compatible PCS list

Standard Compliance	
Certificates	Cell: UN38.3 / IEC62619 / UL 1642 / JET
	Pack: UN38.3 / IEC62619 / IEC61000
	System: UL 9540 (More available upon request)

Ordering and Deliverable Part			
Part	GDC-MATE-14.3-QC		
	GDC-MATE-BCU-M-200-QC	GDC-MATE-BCU-M-215-QC	GDC-MATE-BCU-M-229-QC
	GDC-MATE-R18		

[1] Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25°C.

[2] Charge/discharge derating occurs when the operating temperature from -10°C to 5°C & 45°C to 55°C.

[3] Please refer to the Warranty Letter for applicable conditions.

Model GDC-MATE 200C

[Overview]

Outdoor battery cabinet with IP55 protection level, inbuilt lithium-ion battery and BMS

[Easy Installation and Maintenance]

Local and remote management, standard rack&module design, front maintenance

[High Density]

LP high-capacity Li-ion battery with aluminum shell, over 130wh/kg

[Long Lifespan]

Long cycle life, 6000 cycles

[Safe & Reliable]

Self-developed 2-level / 3-level BMS, complex protection, safe and reliable

[Cell Balancing Technology]

Advanced cell balancing

DATASHEET

Model	GDC-MATE 200C
-------	---------------

Performance	
Battery module (Wh/V)	14.336 kWh, 51.2 V, 110 kg (242.5 lbs)
Number of modules	14
Cell technology	LFP (LiFePO4)
Battery usable energy [1]	200.704 kWh
Nominal voltage	716.8 V
Operating voltage	638.4 - 786.24 V
Nominal output current	140 A / 280 A

Communication	
Display	SOC status indicator, LED indicator, LCD display
Communication	Ethernet / CAN / RS485

General Specification	
Dimension (W*D*H)	1500×1050×2200 mm 50.1×41.3×86.6 inch
Weight	1900 kg (4189 lbs)
Operating temperature [2]	-20 to 60°C (-4 to 140°F)
Environmental humidity	≤ 95%RH (No condensation)
Protection rating	IP 55
Cycle life [3]	6000 Cycles @ 80% DOD / 25°C / 0.5C, 60% EOL
Scalability	Yes
Application	ON Grid / ON Grid + Backup / OFF grid
Compatible PCS	Refer to compatible PCS list

Standard Compliance	
Certificates	Cell: UN38.3 / IEC62619 / UL 1642 / JET
	Pack: UN38.3 / IEC62619 / IEC61000
	System: UL 9540 (More available upon request)

[1] Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25°C.

[2] Charge/discharge derating occurs when the operating temperature from -10°C to 5°C & 45°C to 55°C.

[3] Please refer to the Warranty Letter for applicable conditions.

Model GDC-MATE 500GP

[Overview]

Outdoor battery container with IP55 protection level, inbuild lithium-ion battery and BMS

[Easy Installation and Maintenance]

Local and remote management, standard rack&module design, front maintenance

[High Density]

LP high-capacity Li-ion battery with aluminum shell, over 130wh/kg

[Long Lifespan]

Long cycle life, 6000 cycles *

[Safe & Reliable]

Self-developed 2-level / 3-level BMS, complex protection, safe and reliable

[Cell Balancing Technology]

Advanced cell balancing

DATASHEET

Model	GDC-MATE 500GP
Performance	
Battery module (Wh/V)	14.336 kWh, 51.2 V, 110 kg (242.5 lbs)
Number of modules Cell	18*2
technology Battery	LFP (LiFePO4)
usable energy [1]	516.096 kWh
Nominal voltage	921.6 V
Operating voltage	820.8 - 1010.9 V
Nominal output current	140 A*2 / 280 A* 2
Communication	
Display	SOC status indicator, LED indicator, LCD display
Communication	Ethernet / CAN / RS485
General Specification	
Dimension (W*D*H)	2991×2438×2591 mm 117.8×95.9×102 inch
Weight	8000 kg (17637 lbs)
Operating temperature [2]	-20 to 60°C (-4 to 140°F)
Environmental humidity	≤ 95%RH (No condensation)
Protection rating	IP 55
Cycle life [3]	6000 Cycles @ 80% DOD / 25°C / 0.5C, 60% EOL
Scalability	Yes
Application	ON Grid / ON Grid + Backup / OFF grid
Compatible PCS	Refer to compatible PCS list
Standard Compliance	
Certificates	Cell: UN38.3 / IEC62619 / UL 1642 / JET
	Pack: UN38.3 / IEC62619 / IEC61000
	System: UL 9540 (More available upon request)

[1] Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25°C.

[2] Charge/discharge derating occurs when the operating temperature from -10°C to 5°C & 45°C to 55°C.

[3] Please refer to the Warranty Letter for applicable conditions.