

VERIFICATION OF COMPLIANCE

No.: LVD GZES2412023718PV

Applicant: Shenzhen EEnovance Energy Technology CO., LTD
Room 401, Building 2, Yufengda Industrial Park, No. 1008
Guangqiao Avenue, Yulv Community, Yutang Streets,
Guangming District, Shenzhen, Guangdong, China

Manufacturer: Shenzhen EEnovance Energy Technology CO., LTD
Room 401, Building 2, Yufengda Industrial Park, No. 1008
Guangqiao Avenue, Yulv Community, Yutang Streets,
Guangming District, Shenzhen, Guangdong, China

Product Name: Rechargeable Lithium ion Battery Cabinet

Product Description: Used in PV and Battery system

Model No.: See page 2-9

Trade Mark: 

Rating: See page 2-9

Protection against Electric Shock: Class I

Degree of Protection: IP55

Additional Information: -

Sufficient samples of the product have been tested and found to be in conformity with

Test Standard: EN 62109-1:2010
EN 62109-2:2011

as shown in the

Test Report Number(s): GZES241202371801
GZES241202371802

This Verification of Compliance has been granted to the applicant based on the results of tests, performed by Laboratory of SGS-CSTC Standards Technical Services Co., Ltd. on sample of the above-mentioned product in accordance with the provisions of the relevant harmonized standards under the Low Voltage Directive 2014/35/EU. The CE marking can be affixed, under the responsibility of the manufacturer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives. The affixing of the CE marking presumes in addition that the conditions in annexes III and IV of the Directive are fulfilled.



David Guo

Technical Manager

SGS-CSTC Standards Technical Services Co., Ltd.

2025-07-04

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No.:

LVD GZES2412023718PV

Other information added:

Rating:

Product Model	E-MATE 50-61-A	E-MATE 50-5.12-A	E-MATE 50-10.24-A	E-MATE 50-15.36-A
System Parameters				
Battery module	5.12 kWh, 51.2 Vd.c.			
Number of packs	12	1	2	3
Battery system rated capacity	61.44kWh	5.12kWh	10.24 kWh	15.36kWh
Battery system rated voltage	614.4Vd.c.	51.2Vd.c.	102.4Vd.c.	153.6Vd.c.
Battery system rated current	80 A			
Battery system voltage range	480V - 700.8 Vd.c	40V - 58.4Vd.c	80V - 116.8 Vd.c	120V - 175.2 Vd.c
PV Side Parameter				
PV side voltage range	150 V - 850 Vd.c. (full power above 500 Vd.c.)			
DC maximum current	4*40A			
DC maximum power	96 kW			
MPPT quantity	4			
AC Side Parameters				
Rated output power	50 kW			
Rated grid voltage	3L / N / PE, 230 / 400Va.c.			
Maximum output current	76 A			
Allowable grid voltage range	230 V - 400 Va.c.			
Rated grid frequency	50Hz / 60Hz			
Power factor	-1~1			
System Parameter				
Dimension (W×D×H)	740×1040×2330 mm			
Weight	1080kg	596kg	640kg	684kg
Operating temperature	-30°C~-+55°C			
Relative humidity	0~95% (No condensation)			
Maximum working altitude	3000 m (> 2000 m Derating)			
Ingress protection rating	IP55			
Heat dissipation method	Forced air cooling			

Product Model	E-MATE 50-20.48-A		E-MATE 50-25.60-A		E-MATE 50-30.72-A		E-MATE 50-35.84-A	
System Parameters								
Battery module	5.12 kWh, 51.2 Vd.c.							
Number of packs	4		5		6		7	
Battery system rated capacity	20.48kWh		25.60kWh		30.72kWh		35.84kWh	
Battery system rated voltage	204.8Vd.c.		256.0Vd.c.		307.2Vd.c.		358.4Vd.c.	
Battery system rated current	80 A							
Battery system voltage range	160V - 233.6Vd.c		200V - 292.0Vd.c		240V - 350.4Vd.c		280V - 408.8Vd.c	
PV Side Parameter								
PV side voltage range	150 V - 850 Vd.c. (full power above 500 Vd.c.)							
DC maximum current	4*40A							
DC maximum power	96 kW							
MPPT quantity	4							
AC Side Parameters								
Rated output power	50 kW							
Rated grid voltage	3L / N / PE, 230 / 400Va.c.							
Maximum output current	76 A							
Allowable grid voltage range	230 V - 400 Va.c.							
Rated grid frequency	50Hz / 60Hz							
Power factor	-1~1							
System Parameter								
Dimension (W×D×H)	740×1040×2330 mm							

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Weight	728kg	772kg	816kg	860kg
Operating temperature	-30°C~+55°C			
Relative humidity	0~95% (No condensation)			
Maximum working altitude	3000 m (> 2000 m Derating)			
Ingress protection rating	IP55			
Heat dissipation method	Forced air cooling			

Product Model	E-MATE 50-40.96-A	E-MATE 50-46.08-A	E-MATE 50-51.20-A	E-MATE 50-56.32-A
System Parameters				
Battery module	5.12 kWh, 51.2 Vd.c.			
Number of packs	8	9	10	11
Battery system rated capacity	40.96kWh	46.08kWh	51.20kWh	56.32kWh
Battery system rated voltage	409.6Vd.c.	460.8Vd.c.	512.0Vd.c.	563.2Vd.c.
Battery system rated current	80 A			
Battery system voltage range	320V - 467.2Vd.c	360V - 525.6Vd.c	400V - 584.0Vd.c	440V - 642.4Vd.c
PV Side Parameter				
PV side voltage range	150 V - 850 Vd.c. (full power above 500 Vd.c.)			
DC maximum current	4*40A			
DC maximum power	96 kW			
MPPT quantity	4			
AC Side Parameters				
Rated output power	50 kW			
Rated grid voltage	3L / N / PE, 230 / 400Va.c.			
Maximum output current	76 A			
Allowable grid voltage range	230 V - 400 Va.c.			
Rated grid frequency	50Hz / 60Hz			
Power factor	-1~1			
System Parameter				
Dimension (W×D×H)	740×1040×2330 mm			
Weight	904kg	948kg	992kg	1036kg
Operating temperature	-30℃~+55℃			
Relative humidity	0~95% (No condensation)			
Maximum working altitude	3000 m (> 2000 m Derating)			
Ingress protection rating	IP55			
Heat dissipation method	Forced air cooling			

Product Model	E-MATE 29.9-61-A	E-MATE 29.9-5.12-A	E-MATE 29.9-10.24-A	E-MATE 29.9-15.36-A
System Parameters				
Battery module	5.12 kWh, 51.2 Vd.c.			
Number of packs	12	1	2	3
Battery system rated capacity	61.44kWh	5.12kWh	10.24 kWh	15.36kWh
Battery system rated voltage	614.4Vd.c.	51.2Vd.c.	102.4Vd.c.	153.6Vd.c.
Battery system rated current	50 A			
Battery system voltage range	480V - 700.8 Vd.c	40V - 58.4Vd.c	80V - 116.8Vd.c	120V - 175.2 Vd.c
PV Side Parameter				
PV side voltage range	150 V - 850 Vd.c. (full power above 500 Vd.c.)			
DC maximum current	3*40A			
DC maximum power	59.8 kW			
MPPT quantity	3			
AC Side Parameters				
Rated output power	29.9 kW			
Rated grid voltage	3L / N / PE, 230 / 400Va.c.			
Maximum output current	45.4 A			
Allowable grid voltage range	230 V - 400 Va.c.			
Rated grid frequency	50Hz / 60Hz			
Power factor	-1~1			
System Parameter				

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Dimension (W×D×H)	740×1040×2330 mm			
Weight	1080kg	596kg	640kg	684kg
Operating temperature	-30°C~+55°C			
Relative humidity	0~95% (No condensation)			
Maximum working altitude	3000 m (> 2000 m Derating)			
Ingress protection rating	IP55			
Heat dissipation method	Forced air cooling			

Product Model	E-MATE 29.9-20.48-A	E-MATE 29.9-25.60-A	E-MATE 29.9-30.72-A	E-MATE 29.9-35.84-A
System Parameters				
Battery module	5.12 kWh, 51.2 Vd.c.			
Number of packs	4	5	6	7
Battery system rated capacity	20.48kWh	25.60kWh	30.72kWh	35.84kWh
Battery system rated voltage	204.8Vd.c.	256.0Vd.c.	307.2Vd.c.	358.4Vd.c.
Battery system rated current	50 A			
Battery system voltage range	160V - 233.6Vd.c	200V - 292.0Vd.c	240V - 350.4Vd.c	280V - 408.8Vd.c
PV Side Parameter				
PV side voltage range	150 V - 850 Vd.c. (full power above 500 Vd.c.)			
DC maximum current	3*40A			
DC maximum power	59.8 kW			
MPPT quantity	3			
AC Side Parameters				
Rated output power	29.9 kW			
Rated grid voltage	3L / N / PE, 230 / 400Va.c.			
Maximum output current	45.4 A			
Allowable grid voltage range	230 V - 400 Va.c.			
Rated grid frequency	50Hz / 60Hz			
Power factor	-1~1			
System Parameter				
Dimension (W×D×H)	740×1040×2330 mm			
Weight	728kg	772kg	816kg	860kg
Operating temperature	-30°C~-55°C			
Relative humidity	0~95% (No condensation)			
Maximum working altitude	3000 m (> 2000 m Derating)			
Ingress protection rating	IP55			
Heat dissipation method	Forced air cooling			

Product Model	E-MATE 29.9-40.96-A	E-MATE 29.9-46.08-A	E-MATE 29.9-51.20-A	E-MATE 29.9-56.32-A
System Parameters				
Battery module	5.12 kWh, 51.2 Vd.c.			
Number of packs	8	9	10	11
Battery system rated capacity	40.96kWh	46.08kWh	51.20kWh	56.32kWh
Battery system rated voltage	409.6Vd.c.	460.8Vd.c.	512.0Vd.c.	563.2Vd.c.
Battery system rated current	50 A			
Battery system voltage range	320V - 467.2Vd.c	360V - 525.6Vd.c	400V - 584.0Vd.c	440V - 642.4Vd.c
PV Side Parameter				
PV side voltage range	150 V - 850 Vd.c. (full power above 500 Vd.c.)			
DC maximum current	3*40A			
DC maximum power	59.8 kW			
MPPT quantity	3			
AC Side Parameters				
Rated output power	29.9 kW			
Rated grid voltage	3L / N / PE, 230 / 400Va.c.			
Maximum output current	45.4 A			
Allowable grid voltage range	230 V - 400 Va.c.			
Rated grid frequency	50Hz / 60Hz			
Power factor	-1~1			

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System Parameter				
Dimension (W×D×H)	740×1040×2330 mm			
Weight	904kg	948kg	992kg	1036kg
Operating temperature	-30°C~+55°C			
Relative humidity	0~95% (No condensation)			
Maximum working altitude	3000 m (> 2000 m Derating)			
Ingress protection rating	IP55			
Heat dissipation method	Forced air cooling			

Product Model	E-MATE 30-61-A	E-MATE 30-5.12-A	E-MATE 30-10.24-A	E-MATE 30-15.36-A
System Parameters				
Battery module	5.12 kWh, 51.2 Vd.c.			
Number of packs	12	1	2	3
Battery system rated capacity	61.44kWh	5.12kWh	10.24 kWh	15.36kWh
Battery system rated voltage	614.4Vd.c.	51.2Vd.c.	102.4Vd.c.	153.6Vd.c.
Battery system rated current	50 A			
Battery system voltage range	480V - 700.8 Vd.c	40V - 58.4Vd.c	80V - 116.8Vd.c	120V - 175.2 Vd.c
PV Side Parameter				
PV side voltage range	150 V - 850 Vd.c. (full power above 500 Vd.c.)			
DC maximum current	3*40A			
DC maximum power	60 kW			
MPPT quantity	3			
AC Side Parameters				
Rated output power	30 kW			
Rated grid voltage	3L / N / PE, 230 / 400Va.c.			
Maximum output current	45.6 A			
Allowable grid voltage range	230 V - 400 Va.c.			
Rated grid frequency	50Hz / 60Hz			
Power factor	-1~1			
System Parameter				
Dimension (W×D×H)	740×1040×2330 mm			
Weight	1080kg	596kg	640kg	684kg
Operating temperature	-30℃~-+55℃			
Relative humidity	0~95% (No condensation)			
Maximum working altitude	3000 m (> 2000 m Derating)			
Ingress protection rating	IP55			
Heat dissipation method	Forced air cooling			

Product Model	E-MATE 30-20.48-A	E-MATE 30-25.60-A	E-MATE 30-30.72-A	E-MATE 30-35.84-A
System Parameters				
Battery module	5.12 kWh, 51.2 Vd.c.			
Number of packs	4	5	6	7
Battery system rated capacity	20.48kWh	25.60kWh	30.72kWh	35.84kWh
Battery system rated voltage	204.8Vd.c.	256.0Vd.c.	307.2Vd.c.	358.4Vd.c.
Battery system rated current	50 A			
Battery system voltage range	160V - 233.6Vd.c	200V - 292.0Vd.c	240V - 350.4Vd.c	280V - 408.8Vd.c
PV Side Parameter				
PV side voltage range	150 V - 850 Vd.c. (full power above 500 Vd.c.)			
DC maximum current	3*40A			
DC maximum power	60 kW			
MPPT quantity	3			
AC Side Parameters				
Rated output power	30 kW			
Rated grid voltage	3L / N / PE, 230 / 400Va.c.			
Maximum output current	45.6 A			
Allowable grid voltage range	230 V - 400 Va.c.			
Rated grid frequency	50Hz / 60Hz			

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Power factor	-1~1			
System Parameter				
Dimension (W×D×H)	740×1040×2330 mm			
Weight	728kg	772kg	816kg	860kg
Operating temperature	-30°C~+55°C			
Relative humidity	0~95% (No condensation)			
Maximum working altitude	3000 m (> 2000 m Derating)			
Ingress protection rating	IP55			
Heat dissipation method	Forced air cooling			

Product Model	E-MATE 30-40.96-A	E-MATE 30-46.08-A	E-MATE 30-51.20-A	E-MATE 30-56.32-A
System Parameters				
Battery module	5.12 kWh, 51.2 Vd.c.			
Number of packs	8	9	10	11
Battery system rated capacity	40.96kWh	46.08kWh	51.20kWh	56.32kWh
Battery system rated voltage	409.6Vd.c.	460.8Vd.c.	512.0Vd.c.	563.2Vd.c.
Battery system rated current	50 A			
Battery system voltage range	320V - 467.2Vd.c	360V - 525.6Vd.c	400V - 584.0Vd.c	440V - 642.4Vd.c
PV Side Parameter				
PV side voltage range	150 V - 850 Vd.c. (full power above 500 Vd.c.)			
DC maximum current	3*40A			
DC maximum power	60 kW			
MPPT quantity	3			
AC Side Parameters				
Rated output power	30 kW			
Rated grid voltage	3L / N / PE, 230 / 400Va.c.			
Maximum output current	45.6 A			
Allowable grid voltage range	230 V - 400 Va.c.			
Rated grid frequency	50Hz / 60Hz			
Power factor	-1~1			
System Parameter				
Dimension (W×D×H)	740×1040×2330 mm			
Weight	904kg	948kg	992kg	1036kg
Operating temperature	-30°C~-+55°C			
Relative humidity	0~95% (No condensation)			
Maximum working altitude	3000 m (> 2000 m Derating)			
Ingress protection rating	IP55			
Heat dissipation method	Forced air cooling			

Product Model	E-MATE 37.5-61-A	E-MATE 37.5-5.12-A	E-MATE 37.5-10.24-A	E-MATE 37.5-15.36-A
System Parameters				
Battery module	5.12 kWh, 51.2 Vd.c.			
Number of packs	12	1	2	3
Battery system rated capacity	61.44kWh	5.12kWh	10.24 kWh	15.36kWh
Battery system rated voltage	614.4Vd.c.	51.2Vd.c.	102.4Vd.c.	153.6Vd.c.
Battery system rated current	62 A			
Battery system voltage range	480V - 700.8 Vd.c	40V - 58.4Vd.c	80V - 116.8Vd.c	120V - 175.2 Vd.c
PV Side Parameter				
PV side voltage range	150 V - 850 Vd.c. (full power above 500 Vd.c.)			
DC maximum current	4*40A			
DC maximum power	75 kW			
MPPT quantity	4			
AC Side Parameters				
Rated output power	37.5kW			
Rated grid voltage	3L / N / PE, 230 / 400Va.c.			
Maximum output current	57A			
Allowable grid voltage range	230 V - 400 Va.c.			

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Rated grid frequency	50Hz / 60Hz			
Power factor	-1~1			
System Parameter				
Dimension (W×D×H)	740×1040×2330 mm			
Weight	1080kg	596kg	640kg	684kg
Operating temperature	-30℃~-+55℃			
Relative humidity	0~95% (No condensation)			
Maximum working altitude	3000 m (> 2000 m Derating)			
Ingress protection rating	IP55			
Heat dissipation method	Forced air cooling			

Product Model	E-MATE 37.5-20.48-A		E-MATE 37.5-25.60-A		E-MATE 37.5-30.72-A		E-MATE 37.5-35.84-A	
System Parameters								
Battery module	5.12 kWh, 51.2 Vd.c.							
Number of packs	4		5		6		7	
Battery system rated capacity	20.48kWh		25.60kWh		30.72kWh		35.84kWh	
Battery system rated voltage	204.8Vd.c.		256.0Vd.c.		307.2Vd.c.		358.4Vd.c.	
Battery system rated current	62 A							
Battery system voltage range	160V - 233.6Vd.c		200V - 292.0Vd.c		240V - 350.4Vd.c		280V - 408.8Vd.c	
PV Side Parameter								
PV side voltage range	150 V - 850 Vd.c. (full power above 500 Vd.c.)							
DC maximum current	4*40A							
DC maximum power	75 kW							
MPPT quantity	4							
AC Side Parameters								
Rated output power	37.5kW							
Rated grid voltage	3L / N / PE, 230 / 400Va.c.							
Maximum output current	57A							
Allowable grid voltage range	230 V - 400 Va.c.							
Rated grid frequency	50Hz / 60Hz							
Power factor	-1~1							
System Parameter								
Dimension (W×D×H)	740×1040×2330 mm							
Weight	728kg		772kg		816kg		860kg	
Operating temperature	-30℃~-+55℃							
Relative humidity	0~95% (No condensation)							
Maximum working altitude	3000 m (> 2000 m Derating)							
Ingress protection rating	IP55							
Heat dissipation method	Forced air cooling							

Product Model	E-MATE 37.5-40.96-A	E-MATE 37.5-46.08-A	E-MATE 37.5-51.20-A	E-MATE 37.5-56.32-A
System Parameters				
Battery module	5.12 kWh, 51.2 Vd.c.			
Number of packs	8	9	10	11
Battery system rated capacity	40.96kWh	46.08kWh	51.20kWh	56.32kWh
Battery system rated voltage	409.6Vd.c.	460.8Vd.c.	512.0Vd.c.	563.2Vd.c.
Battery system rated current	62 A			
Battery system voltage range	320V - 467.2Vd.c	360V - 525.6Vd.c	400V - 584.0Vd.c	440V - 642.4Vd.c
PV Side Parameter				
PV side voltage range	150 V - 850 Vd.c. (full power above 500 Vd.c.)			
DC maximum current	4*40A			
DC maximum power	75 kW			
MPPT quantity	4			
AC Side Parameters				
Rated output power	37.5kW			
Rated grid voltage	3L / N / PE, 230 / 400Va.c.			
Maximum output current	57A			

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Allowable grid voltage range	230 V - 400 Va.c.			
Rated grid frequency	50Hz / 60Hz			
Power factor	-1~1			
System Parameter				
Dimension (W×D×H)	740×1040×2330 mm			
Weight	904kg	948kg	992kg	1036kg
Operating temperature	-30°C~+55°C			
Relative humidity	0~95% (No condensation)			
Maximum working altitude	3000 m (> 2000 m Derating)			
Ingress protection rating	IP55			
Heat dissipation method	Forced air cooling			

Product Model	E-MATE 40-61-A	E-MATE 40-5.12-A	E-MATE 40-10.24-A	E-MATE 40-15.36-A
System Parameters				
Battery module	5.12 kWh, 51.2 Vd.c.			
Number of packs	12	1	2	3
Battery system rated capacity	61.44kWh	5.12kWh	10.24 kWh	15.36kWh
Battery system rated voltage	614.4Vd.c.	51.2Vd.c.	102.4Vd.c.	153.6Vd.c.
Battery system rated current	66A			
Battery system voltage range	480V - 700.8 Vd.c	40V - 58.4Vd.c	80V - 116.8Vd.c	120V - 175.2 Vd.c
PV Side Parameter				
PV side voltage range	150 V - 850 Vd.c. (full power above 500 Vd.c.)			
DC maximum current	4*40A			
DC maximum power	80 kW			
MPPT quantity	4			
AC Side Parameters				
Rated output power	40kW			
Rated grid voltage	3L / N / PE, 230 / 400Va.c.			
Maximum output current	60.8A			
Allowable grid voltage range	230 V - 400 Va.c.			
Rated grid frequency	50Hz / 60Hz			
Power factor	-1~1			
System Parameter				
Dimension (W×D×H)	740×1040×2330 mm			
Weight	1080kg	596kg	640kg	684kg
Operating temperature	-30°C~+55°C			
Relative humidity	0~95% (No condensation)			
Maximum working altitude	3000 m (> 2000 m Derating)			
Ingress protection rating	IP55			
Heat dissipation method	Forced air cooling			

Product Model	E-MATE 40-20.48-A	E-MATE 40-25.60-A	E-MATE 40-30.72-A	E-MATE 40-35.84-A
System Parameters				
Battery module	5.12 kWh, 51.2 Vd.c.			
Number of packs	4	5	6	7
Battery system rated capacity	20.48kWh	25.60kWh	30.72kWh	35.84kWh
Battery system rated voltage	204.8Vd.c.	256.0Vd.c.	307.2Vd.c.	358.4Vd.c.
Battery system rated current	66 A			
Battery system voltage range	160V - 233.6Vd.c	200V - 292.0Vd.c	240V - 350.4Vd.c	280V - 408.8Vd.c
PV Side Parameter				
PV side voltage range	150 V - 850 Vd.c. (full power above 500 Vd.c.)			
DC maximum current	4*40A			
DC maximum power	80 kW			
MPPT quantity	4			
AC Side Parameters				
Rated output power	40kW			
Rated grid voltage	3L / N / PE, 230 / 400Va.c.			

David Guo

Technical Manager

SGS-CSTC Standards Technical Services Co., Ltd.

2025-07-04

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Maximum output current	60.8A			
Allowable grid voltage range	230 V - 400 Va.c.			
Rated grid frequency	50Hz / 60Hz			
Power factor	-1~1			
System Parameter				
Dimension (W×D×H)	740×1040×2330 mm			
Weight	728kg	772kg	816kg	860kg
Operating temperature	-30°C~+55°C			
Relative humidity	0~95% (No condensation)			
Maximum working altitude	3000 m (> 2000 m Derating)			
Ingress protection rating	IP55			
Heat dissipation method	Forced air cooling			

Product Model	E-MATE 40-40.96-A	E-MATE 40-46.08-A	E-MATE 40-51.20-A	E-MATE 40-56.32-A
System Parameters				
Battery module	5.12 kWh, 51.2 Vd.c.			
Number of packs	8	9	10	11
Battery system rated capacity	40.96kWh	46.08kWh	51.20kWh	56.32kWh
Battery system rated voltage	409.6Vd.c.	460.8Vd.c.	512.0Vd.c.	563.2Vd.c.
Battery system rated current	66 A			
Battery system voltage range	320V - 467.2Vd.c	360V - 525.6Vd.c	400V - 584.0Vd.c	440V - 642.4Vd.c
PV Side Parameter				
PV side voltage range	150 V - 850 Vd.c. (full power above 500 Vd.c.)			
DC maximum current	4*40A			
DC maximum power	80 kW			
MPPT quantity	4			
AC Side Parameters				
Rated output power	40kW			
Rated grid voltage	3L / N / PE, 230 / 400Va.c.			
Maximum output current	60.8A			
Allowable grid voltage range	230 V - 400 Va.c.			
Rated grid frequency	50Hz / 60Hz			
Power factor	-1~1			
System Parameter				
Dimension (W×D×H)	740×1040×2330 mm			
Weight	904kg	948kg	992kg	1036kg
Operating temperature	-30℃~+55℃			
Relative humidity	0~95% (No condensation)			
Maximum working altitude	3000 m (> 2000 m Derating)			
Ingress protection rating	IP55			
Heat dissipation method	Forced air cooling			

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