

CERTIFICATE

Power Genius GmbH

Wallbergstr. 3, 82024, Taufkirchen,
Germany

is authorized to provide the product(s) mentioned below with the mark as illustrated:



Description of product(s) (details see Annex 2):

Home Energy Hub

It is certified by TÜV NORD CERT GmbH that the product(s) described above has(have) been assessed according to the certification program mentioned below and found in compliance with the requirements of below specified certification fundamental(s). This certification is based on evaluation results as documented in test report(s) referenced below and production site(s) audit results as documented in factory inspection report(s) referenced in Annex 1. This certificate is valid in conjunction with these quoted report(s).

Certification program: P31-VA-01 Rev. 03 / 02.25

Certification fundamental(s): IEC 62109-1:2010,
IEC 62109-2:2011,
IEC 62477-1:2012+AMD1:2016

Registered no.: 44 780 25 406749 - 216

Manufacturer and factory(-ies): See Annex 1

Report no.: 492013874.001

File no.: PVP02014/25E-001

Valid from: 2025-08-25

Valid until: 2030-08-24



TÜV NORD CERT GmbH
Certification Body
Energy Storage System



Essen, 2025-08-25

ANNEX

Annex 1, Page 1 of 1

to Certificate registration no. 44 780 25 406749 - 216

Manufacturer:

Power Genius GmbH

Wallbergstr. 3, 82024, Taufkirchen, Germany

Factory:

New Focus Lighting & Power Technology (Shanghai) Co., Ltd.

No.4589 Waiqingsong Road, Qingpu, Shanghai, China

Factory inspection report no.: 862011089.001

Remark:

Factory inspection is mandatory to be performed annually. Please refer to factory inspection report for detailed information.

A blue ink signature, likely of a representative of TÜV NORD CERT GmbH, written in a cursive style.

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Energy Storage System

TÜV NORD CERT GmbH

Am TÜV 1, D-45307 Essen

Essen, 2025-8-25

www.tuev-nord-cert.de

prodcert@tuev-nord.de

ANNEX

Annex 2, Page 1 of 10

to Certificate registration no. 44 780 25 406749 - 216

Description of product(s):

Model or Type designation	PG-2000A	PG-2000A-1	PG-2000A-2	PG-2000A-3	PG-2000A-4	PG-2000A-5
PV terminal						
Max. PV Input Voltage [Vd.c.]	60					
MPPT Voltage Range [Vd.c.]	15-55					
Max. PV Input Current [Ad.c.]	4*16					
Isc [Ad.c.]	4*20					
Overvoltage Category (OVC)	II					
Battery Parameter						
Battery Type	LiFePO ₄					
Battery Rated Voltage [Vd.c.]	6.4					
Max. Charge Current [Ad.c.]	140	280	420	480	480	480
Max. Discharge Current [Ad.c.]	270	480	480	480	480	480
Rated Capacity [Ah]	280	560	840	1120	1400	1680
Rated Energy [Wh]	1792	3584	5376	7168	8960	10752
The number of salve battery module	0	1	2	3	4	5
AC Input/Output (On-gird terminal)						
AC Normal Voltage [Va.c.]	230; L+N+PE					
AC Normal Frequency [Hz]	50					
Max. AC Input/Output Current [Aa.c.]	10.5/3.5					
Max. AC Input/Output Power [W]	2400/800					
AC output Power Factor Range	0.8 leading-0.8 lagging					
Backup Output						
AC Normal Output Voltage [Va.c.]	230; L+N+PE					
AC Normal Output Frequency [Hz]	50					
Max. AC Output Current [Aa.c.]	10.5					



TÜV NORD CERT GmbH
Certification Body
Energy Storage System

Essen, 2025-8-25

ANNEX

Annex 2, Page 2 of 10

to Certificate registration no. 44 780 25 406749 - 216

Max. AC Output Power [W]	2400
System	
Type of inverter	Isolated
Protective Class	Class I
Ingress protection	IP65
Operating Temperature Range [°C]	-20 ~ + 55 (>45 derating)
Software version	Main power module: INV: V1.21, DCDC: V1.01.36, BMS: V1.00.30 Salve battery module: DCDC: V1.01.36, BMS: V1.10.30

Model or Type designation	PG-2400A	PG-2400A-1	PG-2400A-2	PG-2400A-3	PG-2400A-4	PG-2400A-5
PV terminal						
Max. PV Input Voltage [Vd.c.]	60					
MPPT Voltage Range [Vd.c.]	15-55					
Max. PV Input Current [Ad.c.]	4*16					
Isc [Ad.c.]	4*20					
Overvoltage Category (OVC)	II					
Battery Parameter						
Battery Type	LiFePO ₄					
Battery Rated Voltage [Vd.c.]	6.4					
Max. Charge Current [Ad.c.]	140	280	420	480	480	480
Max. Discharge Current [Ad.c.]	270	480	480	480	480	480
Rated Capacity [Ah]	280	560	840	1120	1400	1680
Rated Energy [Wh]	1792	3584	5376	7168	8960	10752
The number of extra battery module	0	1	2	3	4	5
AC Input/Output (On-gird terminal)						
AC Normal Voltage [Va.c.]	230; L+N+PE					
AC Normal Frequency [Hz]	50					
Max. AC Input/Output Current [Aa.c.]	10.5/10.5					
Max. AC Input/Output Power [W]	2400/2400					



TÜV NORD CERT GmbH
Certification Body
Energy Storage System

Essen, 2025-8-25

ANNEX

Annex 2, Page 3 of 10

to Certificate registration no. 44 780 25 406749 - 216

AC output Power Factor Range	0.8 leading-0.8 lagging
Backup Output	
AC Normal Output Voltage [V.a.c.]	230; L+N+PE
AC Normal Output Frequency [Hz]	50
Max. AC Output Current [A.a.c.]	10.5
Max. AC Output Power [W]	2400
System	
Type of inverter	Isolated
Protective Class	Class I
Ingress protection	IP65
Operating Temperature Range [°C]	-20 ~ + 55 (>45 derating)
Software version	Main power module: INV: V1.21, DCDC: V1.01.36, BMS: V1.00.30 Salve battery module: DCDC: V1.01.36, BMS: V1.10.30

Model or Type designation	PG-2000A1	PG-2000A1-1	PG-2000A1-2	PG-2000A1-3	PG-2000A1-4	PG-2000A1-5
Battery Parameter						
Battery Type	LiFePO ₄					
Battery Rated Voltage [V.d.c.]	6.4					
Max. Charge Current [Ad.c.]	140	280	420	480	480	480
Max. Discharge Current [Ad.c.]	270	480	480	480	480	480
Rated Capacity [Ah]	280	560	840	1120	1400	1680
Rated Energy [Wh]	1792	3584	5376	7168	8960	10752
The number of extra battery module	0	1	2	3	4	5
AC Input/Output (On-gird terminal)						
AC Normal Voltage [V.a.c.]	230; L+N+PE					
AC Normal Frequency [V.a.c.]	50					



TÜV NORD CERT GmbH
Certification Body
Energy Storage System

Essen, 2025-8-25

ANNEX

Annex 2, Page 4 of 10

to Certificate registration no. 44 780 25 406749 - 216

Max. AC Input/Output Current [Aa.c.]	10.5/3.5
Max. AC Input/Output Power [W]	2400/800
AC output Power Factor Range	0.8 leading-0.8 lagging
Backup Output	
AC Normal Output Voltage [Va.c.]	230; L+N+PE
AC Normal Output Frequency [Hz]	50
Max. AC Output Current [Aa.c.]	10.5
Max. AC Output Power [W]	2400
System	
Type of inverter	Isolated
Protective Class	Class I
Ingress protection	IP65
Operating Temperature Range [°C]	-20 ~ + 55 (>45 derating)
Software version	Main power module: INV: V1.21, DCDC: V1.01.36, BMS: V1.00.30 Salve battery module: DCDC: V1.01.36, BMS: V1.10.30

Model or Type designation	PG-2400A1	PG-2400A1-1	PG-2400A1-2	PG-2400A1-3	PG-2400A1-4	PG-2400A1-5
Battery Parameter						
Battery Type	LiFePO ₄					
Battery Rated Voltage [Vd.c.]	6.4					
Max. Charge Current [Ad.c.]	140	280	420	480	480	480
Max. Discharge Current [Ad.c.]	270	480	480	480	480	480
Rated Capacity [Ah]	280	560	840	1120	1400	1680
Rated Energy [Wh]	1792	3584	5376	7168	8960	10752
The number of extra battery module	0	1	2	3	4	5



TÜV NORD CERT GmbH
Certification Body
Energy Storage System

Essen, 2025-8-25

ANNEX

Annex 2, Page 5 of 10

to Certificate registration no. 44 780 25 406749 - 216

AC Input/Output (On-gird terminal)	
AC Normal Voltage [Va.c.]	230; L+N+PE
AC Normal Frequency [Hz]	50
Max. AC Input/Output Current [Aa.c.]	10.5/10.5
Max. AC Input/Output Power [W]	2400/2400
AC output Power Factor Range	0.8 leading-0.8 lagging
Backup Output	
AC Normal Output Voltage [Va.c.]	230; L+N+PE
AC Normal Output Frequency [Hz]	50
Max. AC Output Current [Aa.c.]	10.5
Max. AC Output Power [W]	2400
System	
Type of inverter	Isolated
Protective Class	Class I
Ingress protection	IP65
Operating Temperature Range [°C]	-20 ~ + 55 (>45 derating)
Software version	Main power module: INV: V1.21, DCDC: V1.01.36, BMS: V1.00.30 Salve battery module: DCDC: V1.01.36, BMS: V1.10.30

Model or Type designation	PG-2000B	PG-2000B-1	PG-2000B-2	PG-2000B-3	PG-2000B-4	PG-2000B-5
PV terminal						
Max. PV Input Voltage [Vd.c.]	60					
MPPT Voltage Range [Vd.c.]	15-55					
Max. PV Input Current [Ad.c.]	4*16					
Isc [Ad.c.]	4*20					
Overvoltage Category (OVC)	II					



TÜV NORD CERT GmbH
Certification Body
Energy Storage System

Essen, 2025-8-25

ANNEX

Annex 2, Page 6 of 10

to Certificate registration no. 44 780 25 406749 - 216

Battery Parameter						
Battery Type	LiFePO ₄					
Battery Rated Voltage [Vd.c.]	6.4					
Max. Charge Current [Ad.c.]	157	314	471	480	480	480
Max. Discharge Current [Ad.c.]	270	480	480	480	480	480
Rated Capacity [Ah]	314	628	942	1256	4570	1884
Rated Energy [Wh]	2009.6	4019.2	6028.8	8038.4	10048	12057.6
The number of extra battery module	0	1	2	3	4	5
AC Input/Output (On-gird terminal)						
AC Normal Voltage [Va.c.]	230; L+N+PE					
AC Normal Frequency [Hz]	50					
Max. AC Input/Output Current [Aa.c.]	10.5/3.5					
Max. AC Input/Output Power [W]	2400/800					
AC output Power Factor Range	0.8 leading-0.8 lagging					
Backup Output						
AC Normal Output Voltage [Va.c.]	230; L+N+PE					
AC Normal Output Frequency [Hz]	50					
Max. AC Output Current [Aa.c.]	10.5					
Max. AC Output Power [W]	2400					
System						
Type of inverter	Isolated					
Protective Class	Class I					
Ingress protection	IP65					
Operating Temperature Range [°C]	-20 ~ + 55 (>45 derating)					
Software version	Main power module: INV: V1.21, DCDC: V1.01.36, BMS: V1.00.30 Salve battery module: DCDC: V1.01.36, BMS: V1.10.30					



TÜV NORD CERT GmbH
Certification Body
Energy Storage System

Essen, 2025-8-25

ANNEX

Annex 2, Page 7 of 10

to Certificate registration no. 44 780 25 406749 - 216

Model or Type designation	PG-2400B	PG-2400B-1	PG-2400B-2	PG-2400B-3	PG-2400B-4	PG-2400B-5
PV terminal						
Max. PV Input Voltage [Vd.c.]	60					
MPPT Voltage Range [Vd.c.]	15-55					
Max. PV Input Current [Ad.c.]	4*16					
Isc [Ad.c.]	4*20					
Overvoltage Category (OVC)	II					
Battery Parameter						
Battery Type	LiFePO ₄					
Battery Rated Voltage [Vd.c.]	6.4					
Max. Charge Current [Ad.c.]	157	314	471	480	480	480
Max. Discharge Current [Ad.c.]	270	480	480	480	480	480
Rated Capacity [Ah]	314	628	942	1256	1570	1884
Rated Energy [Wh]	2009.6	4019.2	6028.8	8038.4	10048	12057.6
The number of extra battery module	0	1	2	3	4	5
AC Input/Output (On-gird terminal)						
AC Normal Voltage [Va.c.]	230; L+N+PE					
AC Normal Frequency [Hz]	50					
Max. AC Input/Output Current [Aa.c.]	10.5/10.5					
Max. AC Input/Output Power [W]	2400/2400					
AC output Power Factor Range	0.8 leading-0.8 lagging					
Backup Output						
AC Normal Output Voltage [Va.c.]	230; L+N+PE					
AC Normal Output Frequency [Hz]	50					
Max. AC Output Current [Aa.c.]	10.5					



TÜV NORD CERT GmbH
Certification Body
Energy Storage System

Essen, 2025-8-25

ANNEX

Annex 2, Page 8 of 10

to Certificate registration no. 44 780 25 406749 - 216

Max. AC Output Power [W]	2400
System	
Type of inverter	Isolated
Protective Class	Class I
Ingress protection	IP65
Operating Temperature Range [°C]	-20 ~ + 55 (>45 derating)
Software version	Main power module: INV: V1.21, DCDC: V1.01.36, BMS: V1.00.30 Salve battery module: DCDC: V1.01.36, BMS: V1.10.30

Model or Type designation	PG-2000B1	PG-2000B1-1	PG-2000B1-2	PG-2000B1-3	PG-2000B1-4	PG-2000B1-5
Battery Parameter						
Battery Type	LiFePO ₄					
Battery Rated Voltage [Vd.c.]	6.4					
Max. Charge Current [Ad.c.]	157	314	471	480	480	480
Max. Discharge Current [Ad.c.]	270	480	480	480	480	480
Rated Capacity [Ah]	314	628	942	1256	1570	1884
Rated Energy [Wh]	2009.6	4019.2	6028.8	8038.4	10048	12057.6
The number of extra battery module	0	1	2	3	4	5
AC Input/Output (On-gird terminal)						
AC Normal Voltage [Va.c.]	230; L+N+PE					
AC Normal Frequency [Hz]	50					
Max. AC Input/Output Current [Aa.c.]	10.5/3.5					
Max. AC Input/Output Power [W]	2400/800					
AC output Power Factor Range	0.8 leading-0.8 lagging					
Backup Output						
AC Normal Output Voltage [Va.c.]	230; L+N+PE					



TÜV NORD CERT GmbH
Certification Body
Energy Storage System

Essen, 2025-8-25

ANNEX

Annex 2, Page 9 of 10

to Certificate registration no. 44 780 25 406749 - 216

AC Normal Output Frequency [Hz]	50
Max. AC Output Current [Aa.c.]	10.5
Max. AC Output Power [W]	2400
System	
Type of inverter	Isolated
Protective Class	Class I
Ingress protection	IP65
Operating Temperature Range [°C]	-20 ~ + 55 (>45 derating)
Software version	Main power module: INV: V1.21, DCDC: V1.01.36, BMS: V1.00.30 Salve battery module: DCDC: V1.01.36, BMS: V1.10.30

Model or Type designation	PG-2400B1	PG-2400B1-1	PG-2400B1-2	PG-2400B1-3	PG-2400B1-4	PG-2400B1-5
Battery Parameter						
Battery Type	LiFePO ₄					
Battery Rated Voltage [Vd.c.]	6.4					
Max. Charge Current [Ad.c.]	157	314	471	480	480	480
Max. Discharge Current [Ad.c.]	270	480	480	480	480	480
Rated Capacity [Ah]	314	628	942	1256	1570	1884
Rated Energy [Wh]	2009.6	4019.2	6028.8	8038.4	10048	12057.6
The number of extra battery module	0	1	2	3	4	5
AC Input/Output (On-gird terminal)						
AC Normal Voltage [Va.c.]	230; L+N+PE					
AC Normal Frequency [Hz]	50					
Max. AC Input/Output Current [Aa.c.]	10.5/10.5					
Max. AC Input/Output Power [W]	2400/2400					
AC output Power Factor Range	0.8 leading-0.8 lagging					



TÜV NORD CERT GmbH
Certification Body
Energy Storage System

Essen, 2025-8-25

ANNEX

Annex 2, Page 10 of 10

to Certificate registration no. 44 780 25 406749 - 216

Backup Output	
AC Normal Output Voltage [V.a.c.]	230; L+N+PE
AC Normal Output Frequency [Hz]	50
Max. AC Output Current [A.a.c.]	10.5
Max. AC Output Power [W]	2400
System	
Type of inverter	Isolated
Protective Class	Class I
Ingress protection	IP65
Operating Temperature Range [°C]	-20 ~ + 55 (>45 derating)
Software version	Main power module: INV: V1.21, DCDC: V1.01.36, BMS: V1.00.30 Salve battery module: DCDC: V1.01.36, BMS: V1.10.30

Remark:

For detailed product information, please refer to CDF (Constructional Data Form) in the associated report.



TÜV NORD CERT GmbH
Certification Body
Energy Storage System

Essen, 2025-8-25