

Certificate of compliance

Applicant: Hoymiles Power Electronics Inc.
No. 18 Kangjing Road, HangZhou, Zhejiang Province
P.R. China

Product: Hybrid Inverter

Model: HIT-5L-G3
HIT-6L-G3
HIT-8L-G3
HIT-10L-G3
HIT-12L-G3
HIT-15L-G3
HIT-17L-G3
HIT-20L-G3

Inverter for three-phase parallel connection to the public grid. The network monitoring and disconnection device is an integral part of the above-mentioned model.

Applied rules and standards:

IEC 61727:2004

Photovoltaic (PV) systems – Characteristics of the utility interface

IEC 61683:1999; EN 61683:2000; DIN EN 61683:2000-08

Photovoltaic systems - Power conditioners - Procedure for measuring efficiency

IEC 62116:2014

Test procedure of islanding prevention measures for utility-interconnected photovoltaic inverters

IEC 60068-2-1:2007

Environmental testing – Part 2-1: Tests – Test A: Cold

IEC 60068-2-2:2007

Environmental testing – Part 2-2: Tests – Test B: Dry heat

IEC 60068-2-14:2009

Environmental testing – Part 2-14: Tests – Test N: Change of temperature

IEC 60068-2-30:2005

Environmental testing – Part 2-30: Tests – Test Db: Damp heat, cyclic (12h + 12 h cycle) (IEC 62262:2002 – IK code)

At the time of issue of this certificate, the safety concept of an aforementioned representative product corresponds to the valid safety specifications for the specified use in accordance with regulations.

Report number: BMH-ESH-P25020623-1, BMH-ESH-P25020623-2, BMH-ESH-P25020623-3, BMH-ESH-P25020623-4

Certification Program:

NSOP-0032-DEU-ZE-V10

NSOP-0038-DEU-ZE-V02

Certificate number: U25-0208

Date of issue:

2025-03-12

Certification body

Accreditation



Type Approval and declaration of compliance with the requirements of IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-14, IEC 60068-2-30

Manufacturer	Hoymiles Power Electronics Inc. No. 18 Kangjing Road, HangZhou, Zhejiang Province P.R. China
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Product type	Hybrid Inverter
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Static converter model	HIT-5L-G3	HIT-6L-G3	HIT-8L-G3	HIT-10L-G3
Input (PV DC)				
MPP voltage range [V]	150-900	150-900	150-900	150-900
Max. input voltage [V]	1000	1000	1000	1000
Max. input current per MPPT [A]	20+20	20+20	20+20+20	20+20+20+20
Input (DC battery)				
DC voltage range [V]	40-60	40-60	40-60	40-60
Max. charging current [A]	120	150	190	210
Max. discharging current [A]	120	150	190	210
Output (AC)				
Rated AC voltage [V]	3L/N/PE, 380/400, 50/60Hz	3L/N/PE, 380/400, 50/60Hz	3L/N/PE, 380/400, 50/60Hz	3L/N/PE, 380/400, 50/60Hz
Rated output current [A]	7,6	9,1	12,2	15,2
Max. output current [A]	8,3	10,0	13,3	16,7
Rated apparent power [VA]	5000	6000	8000	10000
Max. output power [VA]	5500	6600	8800	11000

Static converter model	HIT-12L-G3	HIT-15L-G3	HIT-17L-G3	HIT-20L-G3
Input (PV DC)				
MPP voltage range [V]	150-900	150-900	150-900	150-900
Max. input voltage [V]	1000	1000	1000	1000
Max. input current per MPPT [A]	20+20+20+20	20+20+20+20	20+20+20+20	20+20+20+20
Input (DC battery)				
DC voltage range [V]	40-60	40-60	40-60	40-60
Max. charging current [A]	250	300	350	350
Max. discharging current [A]	250	300	350	350
Output (AC)				
Rated AC voltage [V]	3L/N/PE, 380/400, 50/60Hz	3L/N/PE, 380/400, 50/60Hz	3L/N/PE, 380/400, 50/60Hz	3L/N/PE, 380/400, 50/60Hz
Rated output current [A]	18,2	22,8	25,8	30,4
Max. output current [A]	20,0	25,0	28,3	33,3
Rated apparent power [VA]	12000	15000	17000	20000
Max. output power [VA]	13200	16500	18700	22000

Interface protection system and interface switch (Network and system protection "NS-protection")

Type of protection	Integrated NS-protection
Assigned to generation unit type	HIT-5L-G3 HIT-6L-G3 HIT-8L-G3 HIT-10L-G3 HIT-12L-G3 HIT-15L-G3 HIT-17L-G3 HIT-20L-G3
Integrated interface switch	Type of switching equipment 1: Relay (Model HF161F) Type of switching equipment 2: Relay (Model HF161F)
	Note: The output is switched off by the inverter bridge and two relay in series in each line and neutral.
Firmware version	DSP-U2C: V1.00.00 DSP-U5C: V1.00.00 ARM: V1.00.00
Note The settings of the interface protection are password protected adjustable. In case the above stated generators are used with an external protection device, the protection settings of the inverters are to be adjusted according to the manufacturer's declaration. The above stated generators are tested according to the requirements in the EN 50549-1:2019 Commission Regulation (EU) 2016/631 of 14 April 2016. Any modification that affects the stated tests must be named by the manufacturer/supplier of the product to ensure that the product meets all requirements.	