Green house

TIER 1 Bloomberg NEW ENERGY FINANCE

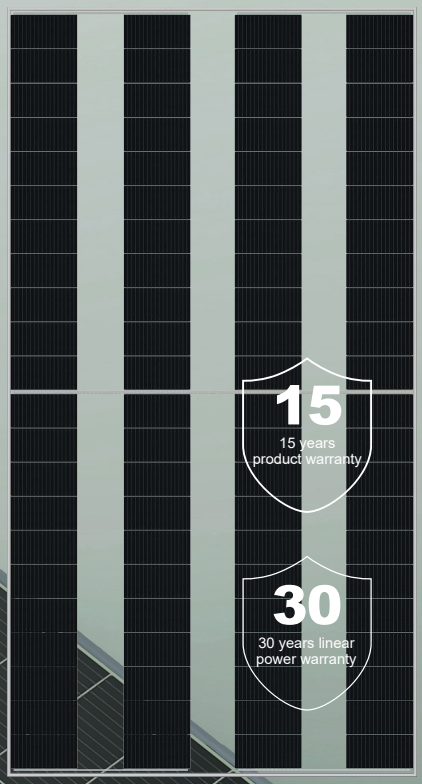
N-Type

Bifacial Module designed for Agrivoltaic, balcony

GHxxxG12RT-B44HST

415~430W

~33% Transparent area



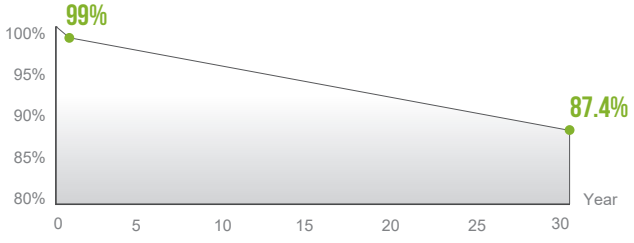
Please refer to the DMEGC Standard Limited Warranty for more details about the product warranty and power warranty.

Zebra Design
High transparent area, fit for agriculture or balcony and carport application.

Enhanced Light Scattering tech
Optimized light consistency, mitigate shade impact for plants under solar module.

Leading Manufacturing
40+ years experience in high-tech manufacturing.

POWER WARRANTY



≤1% 1st-year Degradation, ≤0.4% Linear Annual Degradation (2nd to 30th year)

COMPANY MANAGEMENT SYSTEM

SA 8000: ILO Standards. Social responsibility standards
ISO 9001: Quality management system
ISO 14001: Environmental management system
ISO 45001: Occupational health and safety management system
ISO 50001: Energy management system
ISO 27001: Information security management system

PRODUCT CERTIFICATION

IEC 61215, IEC 61730
Ammonia Corrosion (IEC 62716)
Salt Mist Corrosion (IEC 61701)
LeTID (IEC TS 63342)

SolarPower Europe

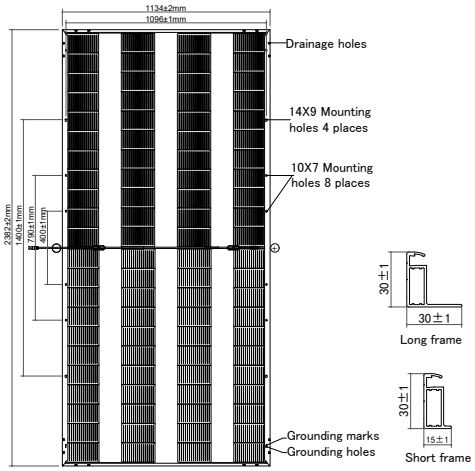
DMEGC SOLAR

A member of HengdianGroup

GHxxxG12RT-B44HST

Module Specification

Cell Type	N type Mono-crystalline, 88(4x22)
Dimensions (mm)	2382x1134x30
Weight (kg)	32
Front Cover	2 mm semi-tempered with anti-reflective coating
Rear Cover	2 mm semi-tempered glass
Junction Box	2 Diodes, IP68 according to IEC 62790
Output Cables (Including Connector)	4mm²/ 110mm (+)/300mm(-) Length can be customized
Connector Type	PV-ZH202B



Back side（mm）

Electrical Specifications[1]

Module Type	GH415G12RT-B44HST		GH420G12RT-B44HST		GH425G12RT-B44HST		GH430G12RT-B44HST	
Testing Condition	STC[2]	NMOT[3]	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	415	316	420	320	425	324	430	328
Maximum Power Current (Imp/A)	14.78	12.01	14.83	12.05	14.88	12.09	14.93	12.13
Maximum Power Voltage (Vmp/V)	28.08	26.35	28.32	26.57	28.56	26.80	28.80	27.02
Short-circuit Current (Isc/A)	15.74	12.69	15.79	12.73	15.84	12.77	15.89	12.81
Open-circuit Voltage (Voc/V)	33.06	31.82	33.20	31.95	33.34	32.09	33.48	32.22

[1] Measurements according to IEC 60904-3, Measurement tolerance: Isc: ±4%, Voc: ±3%, Test uncertainty for Pmax: ±3%, Bifaciality: 80%±5%
[2] STC (Standard Test Condition): Irradiance 1000W/m², Module temperature 25°C, AM=1.5
[3] NMOT: Irradiance 800W/m², Ambient temperature 20°C, AM=1.5, Wind Speed 1m/s

Electrical Specifications[1](BNPI[2])

Nameplate Power (W)	415	420	425	430
Maximum Power (Pmax/W)	459	464	470	475
Maximum Power Current (Imp/A)	16.31	16.37	16.42	16.48
Maximum Power Voltage (Vmp/V)	28.11	28.35	28.59	28.83
Short-circuit Current (Isc/A)	17.32	17.37	17.43	17.48
Open-circuit Voltage (Voc/V)	33.06	33.20	33.34	33.48

[1] Measurements according to IEC 60904-3, Measurement tolerance: Isc: ±4%, Voc: ±3%, Test uncertainty for Pmax: ±3%
[2] BNPI: Front irradiance 1000W/m², Rear radiation 135W/m², Module temperature 25°C, AM=1.5

Operating conditions

Operating Temperature (°C)	-40 to +85
Maximum System Voltage (V)	1500 DC （IEC）
Overcurrent Protection Rating (A)	30
Power Output Tolerance (%)	0~3%
Protection Class	Class II
Max. Test Load, Push/Pull (Pa)	Front 5400 / Back 2400
Max. Design Load, Push/Pull (Pa)	Front 3600 / Back 1600

Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	42±2℃
Temperature Coefficient of Pmax (%/°C)	-0.28
Temperature Coefficient of Voc (%/°C)	-0.25
Temperature Coefficient of Isc (%/°C)	+0.046

Packaging

Container	40HQ
Pallet Dimensions (mm)	2396x1140x1250
Pieces per Pallet	36
Pieces per Container	720

Greenhouse

Hengdian Group DMEGC Magnetics Co.,Ltd.
Add: Hengdian Industrial Zone, Dongyang City Zhejiang Province, China 322118
Tel: 0086-579-8658-8826 **E-mail:** greenhouse@dmegc.com.cn **Website:** www.dmegcsolar.com

DMEGC Renewable Energy B.V.
Add: Industrieweg 2, 2641 RM Pijnacker, Niederlande
Tel: +31 (0) 85 8200765 **E-mail:** contact@dmegc.eu

Statement: The installation instructions and the warranty conditions must be followed. Due to technological progress, product parameters will be adjusted accordingly. When signing the contract, the latest data of the company shall prevail. All information in this data sheet corresponds to EN 50380.Changes and errors excepted. Document. EN DS-G12RT-B44HST-20261123.
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