



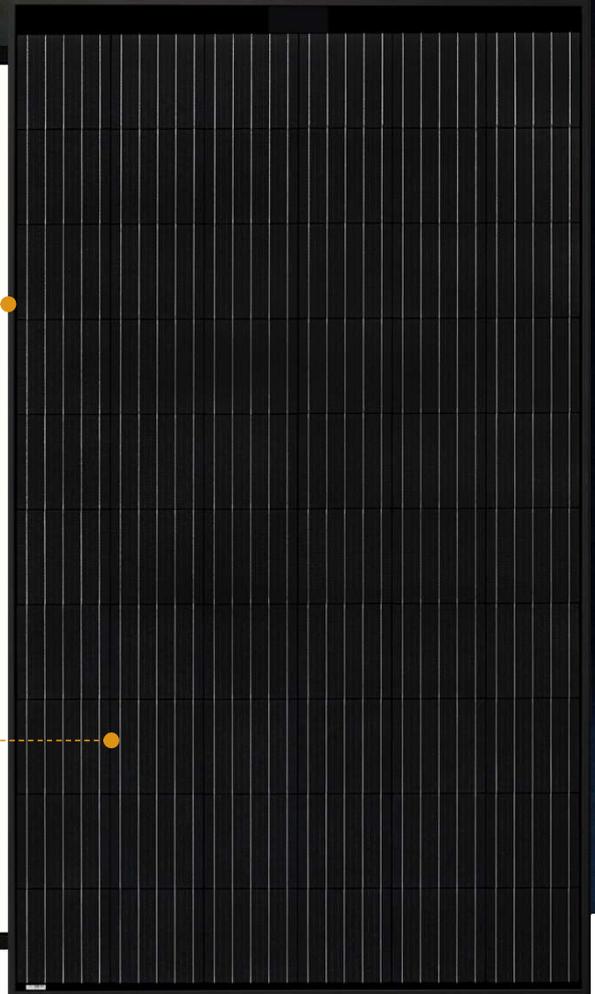
Optional: Heavy snow load frame



Optional: 30yrs guarantee



Optional: Total-Care Insurance



**EXCELLENT GLASS/GLASS M60
fullblack ACM**

MONOCRYSTALLINE 320-330 WP



Performance optimized, user-friendly monitoring and fast shutdown

Every ACM is a standalone system, thus power loss of a single ACM due to shadow or technical defect does not impact the rest of the string

Monitor and manage from any web connected device with Enphase Gateway and Enphase Enlighten application

Built-in rapid shutdown compliant with NEC 2014 and NEC 2017

Quick and easy installation, scalable, easy replacement

Module and inverter consolidated into a single product making it easier to order, store and transport

Every ACM is a standalone system allowing:
- simplified electrical planning
- system to be flexibly scaled up

Microinverter is field-replaceable without need to replace the entire module

Long lifetime even under extreme conditions

PID-free PERC high performance solar cells

Antireflective coated solar glass

Low-light optimized

Positively classified -0/+4.99 Wp

Industry-leading NMOT values

Optimized for performance

2 x 2 mm strong double glass laminate protecting cells against microcracks, moisture and degradation

15 mm distance between microinverter and module grants sufficient air flow for cooling

Maximum test load 8.100 Pa.

Stability optimized for increased requirements due to slipping snow loads (optional)

Extended hail impact tests to 30 mm

¹ For detailed information please consult the CS Wismar GmbH warranty conditions

² See backside for detailed test loads

³ Subject to recertification

EXCELLENT GLASS/GLASS 320 | 325 | 330 M60

fullblack ACM

Performance STC

Under standard Test Conditions STC:
1000 W/m²; spectrum AM 1.5;
Cell temperature 25°C
Measurement tolerance STC:
P_{mpp} ±3%; I_{sc} ±10%; U_{oc} ±10%

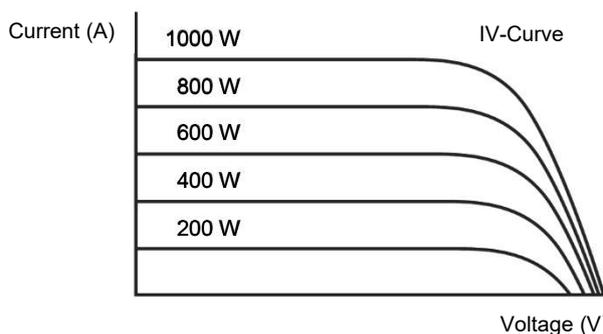
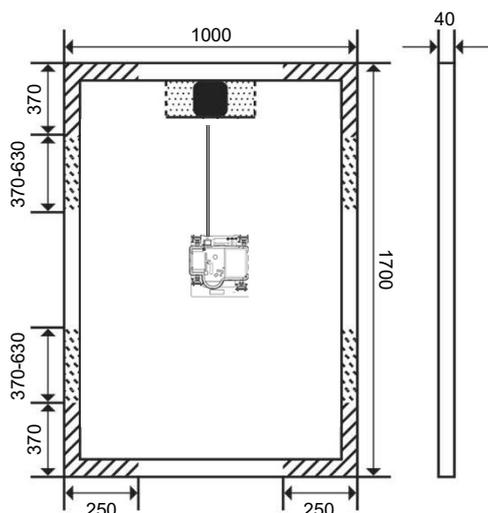
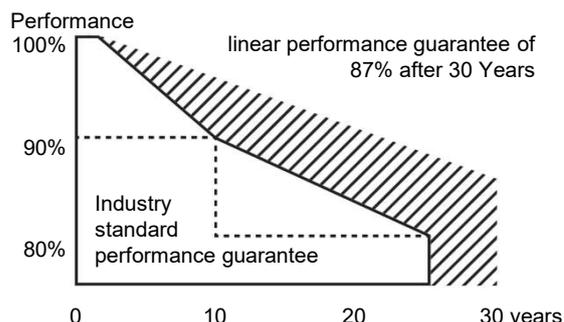
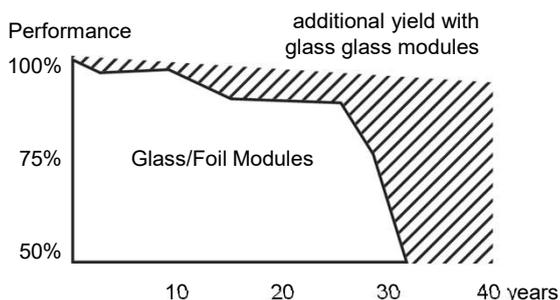
Nominal Power P _{mpp} (Wp)	320	325	330
Open Circuit Voltage U _{oc} (V)	40,22	40,41	40,60
Voltage U _{mpp} (V)	33,61	33,85	34,09
Short Circuit Current I _{sc} (A)	10,20	10,31	10,42
Current I _{mpp} (A)	9,52	9,60	9,68
Efficiency η (%)	18,8	19,1	19,4

Reduction of module efficiency at reduction from 1000 W/m² to 200 W/m²: 2,6% ± 0,1% (relative)

Performance NMOT

Nominal operating temperature of module
800 W/m², NMOT, AM 1.5

Nominal Power P _{mpp} (Wp)	250	254	258
Open Circuit Voltage U _{oc} (V)	37,61	37,79	37,97
Voltage U _{mpp} (V)	32,94	33,17	33,40
Short Circuit Current I _{sc} (A)	8,24	8,33	8,42
Current I _{mpp} (A)	7,60	7,66	7,72



clamping area
 approved up to 2.400 Pa
 no contact between junction box and mounting profile permitted in this area.
 approved up to 5.400 Pa

No mounting equipment behind the inverter. Safety area is at least 5 cm in each direction of the inverter.

Other Specification

Max. system voltage	1000 V
Weight	ca. 23.0 kg
Reverse Current Load IR	15 A
Junction box	IP 67 with 3 bypass diodes
Connectors	IP 67, MC4
Fire rating	class C
Operating temperature	-40°C ... +85°C
Design load: snow	5.400 Pa *
Max test load	8.100 Pa
Design load: wind	2.400 Pa *
Max test load	3.600 Pa
TC P _{mpp}	-0.39 %/K
TC U _{oc}	-0.28 %/K
TC I _{sc}	0.040 %/K
NMOT	45 +/- 2 °C
No. of cells	60 cells
Type of cells	monocrystalline
Front	hardened solar glass
Frame	anodized aluminium
Frame height	40 mm

* safety factor 1.5

Enphase IQ7+ Output Data

Peak Output Power [VA]	295 VA
Max Continuous Power [VA]	290 VA
Nominal Voltage [V]	230 V / 184-276 V
Max Continuous Current [A]	1.26 A
Nominal Frequency [Hz]	50 Hz
Extended Frequency Range [Hz]	45 - 55 Hz
Efficiency [%]	96.5
Power Factor / Adjustable [#]	0.8 leading ... 0.8 lagging
Max Branch Circuit [A]	13 (230 VAC)
Operating Temperature [C]	-40 to +65

Enphase IQ7+ Features

Communication	Power line
Monitoring	Enlighten Manager and MyEnlighten options Compatible with Enphase-S
Disconnecting Means	Approved by UL for AC and DC load break as required by NEC Article 690
Rapid Shutdown	Compliant per NEC-2014 & 2017