

Rappelons également que le recyclage des panneaux solaires est garanti par PV CYCLE et que l'élimination des déchets sera effectuée conformément à la réglementation en vigueur avec le PREDIS et le PIEDMA.

3 En réponse à la DGAC/SNIA

La DGAC a émis un avis défavorable qui peut-être revu à condition de compléter le dossier par :

- un document de spécifications techniques du constructeur des panneaux mentionnant explicitement la valeur maximale de la luminance des panneaux photovoltaïques, exprimée dans l'unité cd/m^2 , qui y apparaît inférieure ou égale à $20\,000 \text{ cd/m}^2$,
- un document écrit et formel, signé du demandeur et engageant sa responsabilité à mettre en œuvre, sur l'ensemble du projet, ce type de panneaux photovoltaïques ou un type équivalent dont la luminance sera inférieure ou égale à $20\,000 \text{ cd/m}^2$.

Vous trouverez donc ces documents annexés au présent courrier.

Nous espérons que ce courrier répondra à l'ensemble de vos interrogations.

Les deux dossiers réglementaires qui doivent par ailleurs être réalisés (demande de dérogation à l'interdiction de destruction d'espèces protégées et déclaration de cessation d'activité de la carrière sur la zone de Projet) seront transmis à la DREAL prochainement.

Nous vous prions d'agréer, Madame, Monsieur, nos salutations distinguées.



Christian CHIARI
Directeur Général

Annexe : Réponse à transmettre à la DGAC

FPV BRONCOLE

Société par actions simplifiée au capital de 1000.00 euros
1 Rue du Docteur Morucci – 20 200 Bastia
RCS Bastia : 829 338 466

DGAC/SNIA Sud-Est
Délégation Corse
BP 60951
20700 AJACCIO Cedex 9

Bastia, le 14 Janvier 2019

Objet : Engagement sur l'honneur de la FPV Broncole concernant la mise en œuvre de modules photovoltaïques dont la luminance est inférieure ou égale à 20 000 cd/m²

Pièces jointes :

- Document de spécifications techniques des modules AUO_SunClaro PM060MW2 (luminance < 20 000 cd/m²)
- Rapport de test sur la luminance de ces modules
- Déclaration de conformité de GMB Deflect, fabricant du verre utilisé dans ces modules

ENGAGEMENT SUR L'HONNEUR

Je soussigné, Monsieur Christian CHIARI, Directeur Général de la FPV BRONCOLE, m'engage sur l'honneur à utiliser, sur l'ensemble du projet objet du dossier n° PC 02B 148 17 N0025, les modules photovoltaïques dont la documentation technique est annexée à ce courrier, ou un type équivalent, et dont la luminance est inférieure ou égale à 20 000 cd/m².

Fait pour servir et valoir ce que de droit.



Christian Chiari
Directeur Général

FPV BRONCOLE

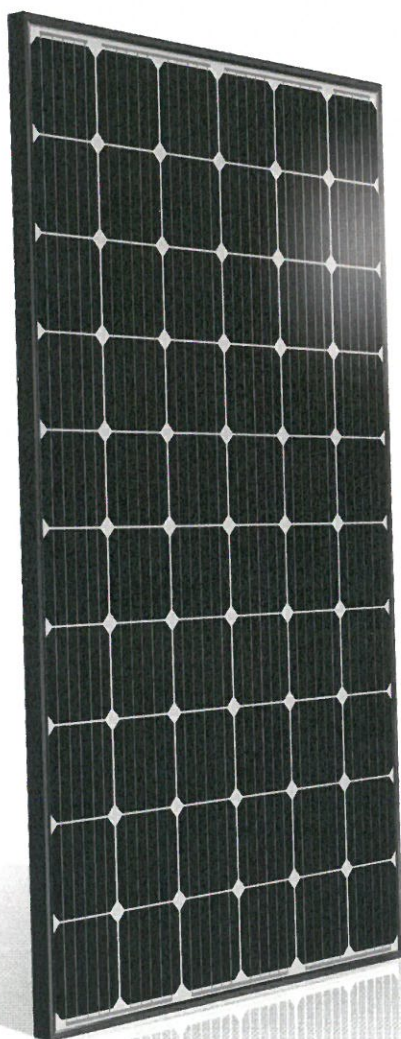
Société par actions simplifiée au capital de 1000.00 euros
1 Rue du Docteur Morucci – 20 200 Bastia
RCS Bastia : 829 338 466

The AUO logo is displayed in a large, bold, blue font. Above the logo, a decorative graphic of a curved grid of small squares in various colors (blue, green, yellow, grey) is visible.

AUO

SunClaro PM060MW2

Mono-Crystalline Photovoltaic Module



Power Range
295 Wp



Strong Wind Resistance
Dynamic mechanical loading 4 times higher
than the IEC requirement



PID-Resistance
Certified high PID resistance passing 1000-
hour tough environmental test



Superior Weak Light Performance
Improved absorption of long wavelength light



Enhanced Salt Mist and Humidity Resistance
12 times more salt-mist resistant and
40% more moisture exclusion



Ammonia Test
Reliable in ammonia rich environment



SunClaro PM060MW2 (295 Wp)

Electrical Data (STC)

Nominal Power P_N	295W
Module Efficiency	18.1%
Nominal Voltage V_{mp} (V)	32.6
Nominal Current I_{mp} (A)	9.05
Open Circuit Voltage V_{oc} (V)	39.8
Short Circuit Current I_{sc} (A)	9.63
Maximum Tolerance of P_N	0 / +3%

* Above data are the effective measurement at Standard Test Conditions (STC)
 * STC: irradiance 1000 W/m², spectral distribution AM 1.5, temperature 25 ± 2 °C, in accordance with EN 60904-3

Electrical Data (NOCT)

Nominal Power P_N	217W
Nominal Voltage V_{mp} (V)	29.8
Nominal Current I_{mp} (A)	7.29
Open Circuit Voltage V_{oc} (V)	37.0
Short Circuit Current I_{sc} (A)	7.79

* Above data are the effective measurement at Normal Operation Cell Temperature (NOCT)
 * NOCT: irradiance 800 W/m², AM 1.5, air temperature 20 °C, wind speed 1 m/s

Temperature Coefficient

NOCT	46 ± 2 °C
Typ. Temperature Coefficient of P_N	-0.42% / K
Typ. Temperature Coefficient of V_{oc}	-0.30% / K
Temperature Coefficient of I_{sc}	0.05% / K

Mechanical Characteristics

Dimensions (L x W x H)	1640 x 992 x 40 mm (64.57 x 39.05 x 1.57 in) *
Weight	18.5 kg (40.79 lbs)
Front Glass	Anti-Glare solar tempered glass (<20,000cd/m ² , 3.2 mm (0.13 in)
Cell	60 monocrystalline solar cells
Back Sheet	Composite film
Frame	Anodized aluminum frame
Junction Box	IP-68 rated with 3 bypass diodes
Connector Type	MC4 KST4/KBT4: 1 x 4 mm ² (0.04 x 0.16 in ²)

* Module Dimension (L x W) Tolerance: ± 2 mm (0.079 in)

Operating Conditions

Operating Temperature	-40 ~ +85 °C
Ambient Temperature Range	-40 ~ +45 °C
Max. System Voltage	1000V / 1500V
Serial Fuse Rating	15A
Max. Snow / Wind Load	5400 Pa / 2400 Pa
Max. Dynamic Mechanical Load	4000 Pa

Warranties and Certifications

Product Warranty	Maximum 15 years for material and workmanship
Performance Guarantee	Guaranteed linear degradation to 80% for 25 years *1
Certifications	According to IEC/EN 61215 and IEC/EN 61730 guidelines *2

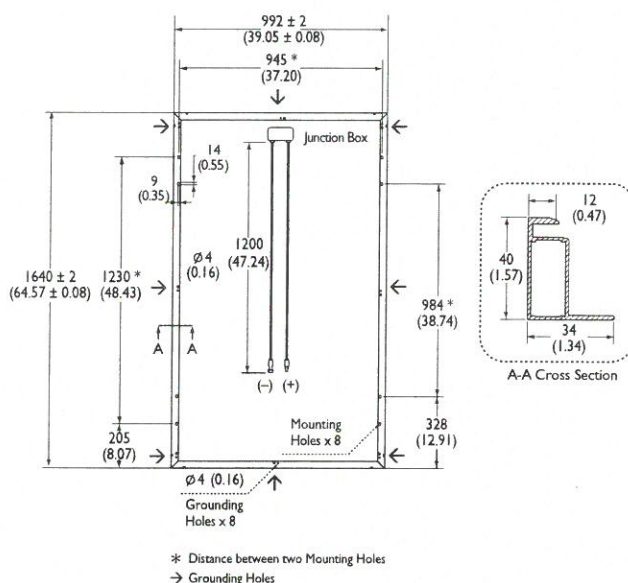
*1: Please refer to warranty letter for detail

*2: Please confirm other certifications with official dealers

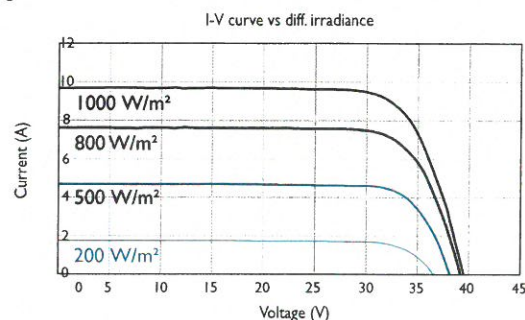
Packing Configuration

Container	20' GP	40' GP	40' HQ
Pieces per Pallet	26	26	26
Pallets per Container	6	14	28
Pieces per Container	156	364	728

Dimensions mm (inch)



I-V Curve



Current/voltage characteristics with dependence on irradiance and module temperature.



About AU Optronics

AU Optronics (AUO) is a leading global manufacturer of TFT-LCD committed to providing green solutions to its worldwide customers in a manner that is sustainable and friendly to the environment. In addition to its strengths in product and technological innovation, AUO stresses its commitment to going green and to utilizing manufacturing excellence to develop high efficiency solar solutions for residential, commercial, and utility segments.



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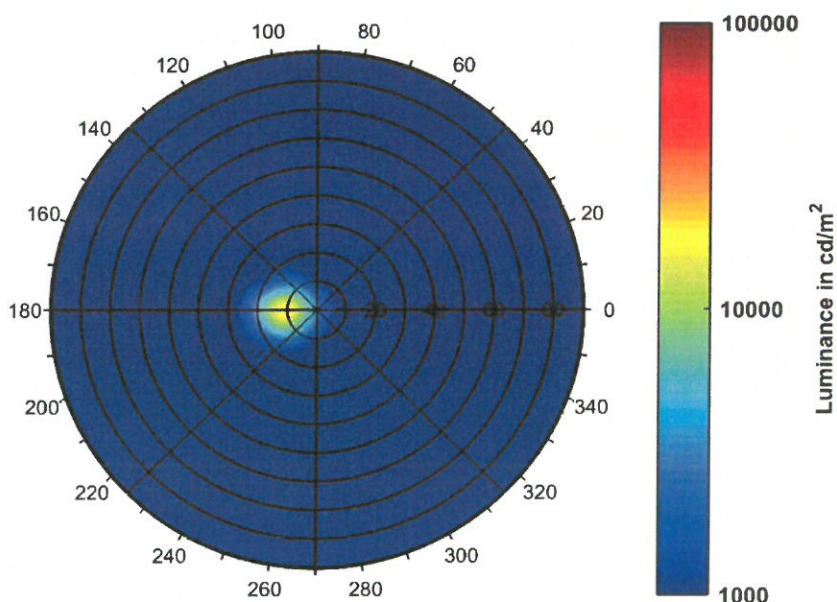
Commissioner Interfloat Corporation
Grabenackerweg 3
9491 Ruggell
Fürstentum Liechtenstein

Test Material GMB DEFLECT (1596-2), 1s-AR
with light trap, Anl. 6.3.2017

Test Method BRDF of front side (light trap attached to back side)

Results Reflected luminance at bright sunshine*: $L_{V,10^\circ} = 19'000 \text{ cd/m}^2$
(near normal incidence of 100'000 lx)

Scattering plot for bright sunshine (100'000 lx) for an incident angle of 10°



* 20'000 cd/m² allowed for airport installations: "Certification Specifications and Guidance Material for Aerodromes Design", CS-ADR-DSN, Issue 2, 29 January 2015

Declaration of conformity GMB DEFLECT glass

GMB DEFLECT is a special glass with appropriately patterned surfaces and antireflexion coating. Thus incident light is diffusely scattered in different directions. Hence disturbing glare effects are reduced. Other surfaces, like window glass or common solar glass, do not possess these characteristics. The incident light is directly reflected and there is no scattering, which considerably increases the glare effect.

GMB DEFLECT was developed for applications, which demand a reduction of glare to a minimum. For solar collectors, e.g. near airports, the compliance with a maximum value of luminance for reflected light of 20.000 cd/m^2 is required¹.

Currently no consistent certification process for glare measurements of solar modules is established yet. Interfloat Corporation has mandated the respected SPF Institute of Solar Technology in Rapperswil (Switzerland) to carry out measurements on **GMB DEFLECT** with the BRDF-method. The SPF has determined a reflected luminance significantly below 20.000 cd/m^2 using a light trap².

Consequently modules equipped with **GMB DEFLECT** glass can be used in the field. It is important to notice though, that the other components of the module as well as the on-site conditions can also influence the light reflection.

¹ EASA-specification – CS-ADR-DSN (Issue 3 – 8 December 2016)

² Explanations considering measurement methodology and further information can be requested when necessary.