OPÉRASOL® SOLAR MODULES
FLEX IBC MODULES INTEGRATION

Presentation of flexible IBC Modules integrated on a MITSUBISHI OUTLANDER PHEV vehicule

Léger / *Light*

Lightweight (< 2,5 kg /m³)

Conformable / *Conformable*

Curved shaping with angles > 30°

Haut rendement / High efficency

Rated Power up to 210 Wp/m²

Sur mesure / Customisable

Without glass on the front

Without lead

Gestion de la puissance / *Power management*

Junction Boxes integrated under the car bonnet

« Turnkey and specific solution for your specific needs»

Made in FRANCE

2CA CONCEPT COMPOSITES AUVERGNE

OPÉRASOL® PHOTOVOLTAIC MODULES
FLEX IBC MODULES INTEGRATION

Made in FRANCE

TECHNICAL PRESENTATION OF THE REALIZATION

*The NLPE association (No Limit Project Events) trusted us by letting us integrate **3 Opérasol modules** on a total surface of 1 m² of cover in order **to power the batteries placed in the trunk**. The panel supplying **170 Wp** has the advantage of having an intensity of only 6 A, thus greatly limiting losses linked to heating.*

*In addition, the modules are **100% compliant with the RoHS lead-free directive**.*

CARACTERISTIQUES ELECTRIQUES

Rated Power(P_{mpp})*	170 W (flat) 163 W (curved)
Tolerance (module)	0/+ 5%
Voltage at maximum power (V_{mpp})*	30,5 V (flat) 30,7 V (curved)
Current at maximum power (I_{mpp})*	5,6 A (flat) 5,3 A (curved)
Open Circuit voltage (V_{oc})*	36,2 V (flat) 36,4 V (curved)
Short-circuit current (I_{sc})*	6,0 A (flat) 5,8 A (curved)

* Under Standard Test conditions: 1000W/m², AM1.5, 25°C

PV CYCLE

QUALITY CERTIFCATES

ISO 9001 EN 9100 BUREAU VERITAS Certification

REALIZATION OF TAILOR-MADE PHOTOVOLTAIC MODULES

These PV modules are integrable to many applications

Integration of modules on car bonnet for a complement supplying electricity

Integration on wings of drone for increasing of fly time

Use of these modules for atmospheric and stratospheric environments

2CA offers you the study, the production of modules and their integration into a PV system

operasol.com
2ca.fr
OPÉRASOL® a brand of 2CA

2CA - Rue de l'industrie - ARLANC 63220
FRANCE
Tél : +33(0)4 73 95 01 46 - Fax : +33(0)4 73 95 17 04

2CA CONCEPT COMPOSITES AUVERGNE