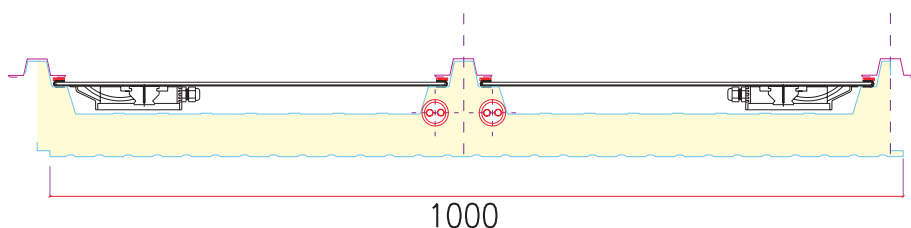


A Roof that produces Energy.

ERIT roof system produced by Isolpack is the most advanced solution in the field of Roof-Integrated Photovoltaic Systems. Designed to have the perfect integration of a photovoltaic module inside an insulated metallic panel for roof, make it possible to have a roof also producing electrical energy. The benefits, compared to similar systems currently in the market, are ensured by the energy that **ERIT** system produces through his high efficiency-photovoltaic component, by the insulated panel that has high thermal insulation characteristics, by the real reduction in installation costs. This is guaranteed by long-time experience of Isolpack Spa in the field of metallic buildings.



DESCRIPTION

ERIT panel is a sandwich element composed of two metallic corrugated and ribbing sheets and ,inside, of high-density polyurethane foam. The panel has a profile specifically designed to insert a custom made photovoltaic module, considering the indispensable ventilation requirement on the rear surface of the module. Through the interstice an optimal level of working temperature is ensured

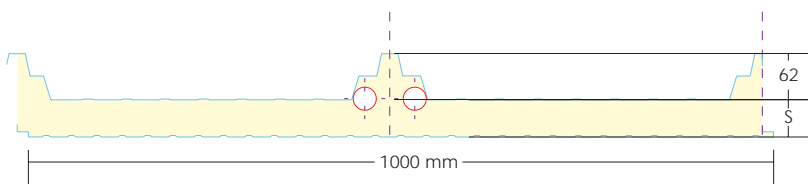
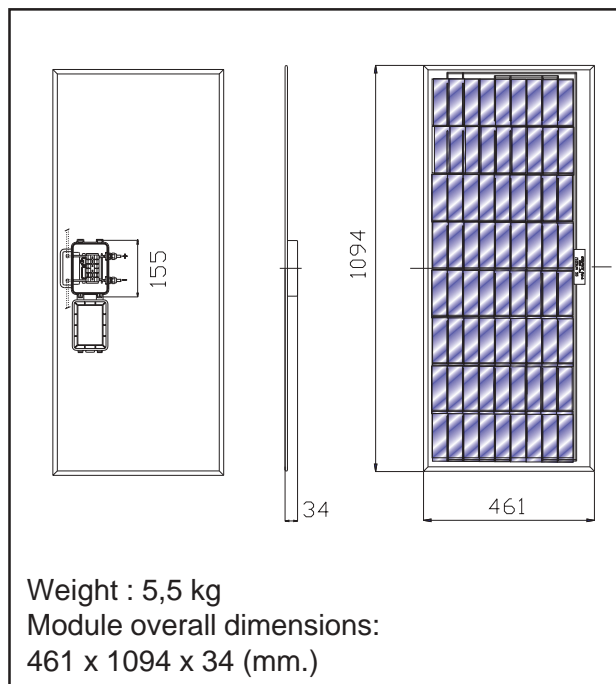
for the system and the different thermal expansions are respected.

The photovoltaic module is certified by Ispra JRC and is composed of 24 multi-crystalline silicon cells with high efficiency (14,5%). The sizes of laminate and frame are optimized for the perfect integration in the panel and the panel has been designed in conformity with standard applications of metallic roofs.

CERTIFICATIONS



PV MODULE ISOSUN55 SIZES



INSULATED PANEL CHARACTERISTICS

Insulation: polyurethane foam with thickness not smaller than 40 mm, density not smaller than 37 kg/m^3 , coefficient of thermal transmission $K = 0,462 \text{ W/m}^2/\text{K}$.

Structure:

Metallic supports: Galvanized "Sendzimir" prepainted steel in conformity with normative low UNI EN 10147, thickness $0,5+0,5 \text{ mm}$, maximum wave height 62 mm, panel weight $10,69 \text{ kg/m}^2$.

Strength:

Maximum uniformly distributed load with pitch between the supports $L = 2500 \text{ mm}$: 242 kg/m^2

Electrical parameters in STC (Standard Test Conditions)

Standard Test Conditions:
Irradiance $G = 1000 \text{ W/m}^2$
Module Temperature: $T_M = 25^\circ\text{C}$
Air Mass $AM = 1,5$

Nominal peak power:	Wp	55 (±5%)
Open Circuit Voltage U_{oc} :	V	14,6
Short Circuit Current I_{sc} :	A	5,15
Maximum Power Voltage U_M :	V	11,6
Maximum Power Current I_M	A	4,74

PV MODULE WARRANTY:

Product Workmanship: 1 year; Power Output: 25 year (80% of nominal output power)

ERIT SYSTEM INSTALLATION

Integration of photovoltaic modules in insulated panel is executed in the factory; On-site erection for **ERIT** system is executed just like for Isolpack standard panels: drilling panels and below supports, insertion of a specific Isolpack-homologated clamp composed of self-threaded

screws in galvanized passivated steel, caps in galvanized steel, packings in vipla.

Positioning of Isosun55 modules in the panel will be executed respecting the followings specifics requirements:

- Walking space for workmanship, in absolute security, during

assembly and maintenance, making possible every operation in a position near modules.

- Elettrical Power as customer required.
- Presence of shading zones on the roof
- Aesthetic and functional requirements