

MODULE 160 SC

REF. V4T6

COMPATIBLE SOLUTION WATTWAY SYSTEM

EMPOWER YOUR ELECTRICAL EQUIPMENT

Colas has developed Wattway, a mobile photovoltaic module designed to integrate with transport infrastructures, generating electricity while preserving their functionality for all types of vehicles.

The modules, characterized by their slim profile and durability, are affixed directly to the existing support. The module's surface is textured to provide grip comparable to that of a conventional road surface.



Wattway Pack of 12 tiles integrated into a wooden pontoon (La Baule, France)

THE ADVANTAGES OF THE WATTWAY PACK



The inaugural photovoltaic road surface designed for use by all vehicle types.



Energy generation in proximity to consumption sites.



Optimization of land resources, scarce in urban environments and invaluable in rural settings.



Resilient technology, impervious to climatic hazards, navigable.

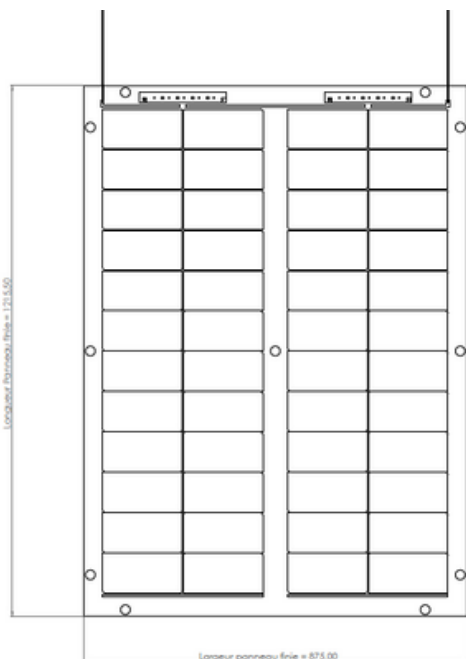


Expedited: streamlined administrative procedures and straightforward installation.

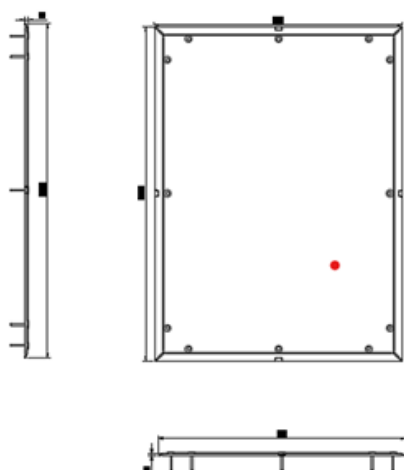


Wattway Photovoltaic Module, emphasizing the half-cells

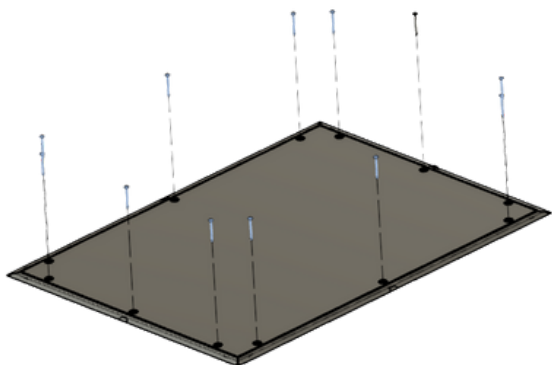
DIMENSIONS



Module plan



Aluminum framework design



Pre-assembled solution, designed for direct attachment to the support.

PHYSIOLOGICAL ATTRIBUTES

Dimensions (Length x Width)	1216 mm x 875 mm
Manufacturing zone	0,80 m ²
Thickness	5 mm
Weight	8 kg
Number of cells	48.5 M10 cells
Cellular classification	Monocrystalline P-type PERC
Cable length	200 mm
Connection enclosure	2 diodes bypassed
Frame	Yes (aluminum)
Backsheet hue	Noir
Type of fastening	Screwed into asphalt (>7cm), concrete, and wood.
Traffic resistance ¹	Pedestrian, cyclist
Load and shock resistance ²	IK 7 / IK10
Adhesion	SRT > 50

PHOTOVOLTAIC ATTRIBUTES

Rated power	159 Wc
Cell efficiency	20%
Output power tolerance	+/-5W
Voltage at rated power (Vmpp)	29.1V
Intensity at nominal power (Impp)	5,5 A
Open Circuit Voltage Voc (V)	32.7V
Short-circuit current intensity (Icc)	5,8 A
Maximum system voltage	120V
Maximum inverse current	25 A

¹ This module employs an encapsulation identical to that of the Wattway module, which is certified as of mid-2024, and is the sole road photovoltaic module to have received IEC certifications.

² IK7 for cells / IK10 for the active components of the panel.

³ The system's maximum voltage is contingent upon usage conditions (such as traffic and public accessibility) and must be determined by the customer.



IEC 61215
IEC 61730



certisolis
TEST - CERTIFICATION PHOTOVOLTAÏQUE