Optimizer Deye SUN-XL02-B 700W 15A

Product code: **OP.Deye.SUN-XL02-B**

Deye SUN-XL02-B is an optimizer designed for a single PV panel. It offers module-level MPPT, increases energy yield, provides real-time monitoring, and features rapid shutdown. With a robust IP68 design and wide operating temperature range, it is a reliable choice.

Product variants

Index	Price
Optimizer Deye SUN-XL02-B 700W 15A **OP.Deye.SUN-XL02-B**	Product prices only visible after login. If you do not have an account, please register.

Product description

Deye SUN-XL02-B is an optimizer designed for a single PV panel. In the B version, it offers full monitoring and safety functions — ideal for demanding installations.

Key features:

Module-level MPPT: Optimizes the operation of a single panel, eliminating losses due to shading, dirt, or mismatch.

Energy yield increase: Up to 5–25% higher energy production compared to non-optimized systems.

Rapid Shutdown: Reduces DC voltage to a safe level (requires an optimizer concentrator).

Real-time monitoring: Enables quick diagnostics and fault detection for each module.

PLC communication: Uses PV cables without additional communication wiring.

Technical parameters: Up to 700 W input power, 12–80 V MPPT range, max 15 A, 99.5% efficiency.

Build & durability: IP68 protection, –40 °C to +85 °C, compact dimensions 105×105×22 mm, weight ~660 g, MC4-compatible connectors.

Key parameters:

Panel/module: 1 panel

Max input power (DC): 700 W

Max input voltage (DC): 80 V

MPPT range: 12–80 V

Max input current: 15 A

Peak efficiency: 99.5%

Rapid Shutdown: Yes (with concentrator)

Module monitoring: Real-time

Communication: PLC via PV cables

Protection: IP68

Operating temperature: –40 °C … +85 °C

Dimensions: 105 × 105 × 22 mm

Weight: ~660 g

Applications:

When a single panel is shaded or requires individual optimization.

Installations with safety standards requiring Rapid Shutdown.

Systems where full module-level monitoring is valuable.

Projects needing compact solutions without extra wiring.