BRC SOLAR

# Power Optimizer M500/14

*Module Optimizer for Photovoltaic Systems*

**Shading Optimization**
*Solves the problem of shading in photovoltaic systems*

**Plug & Play**
*Active from the first second*

**System Independent**
*Compatible with every inverter brand*

**Simplest Installation**
*No additional software, no app, no special tools required*

**Maximum Flexibility**
*Only needs to be attached to shaded modules*

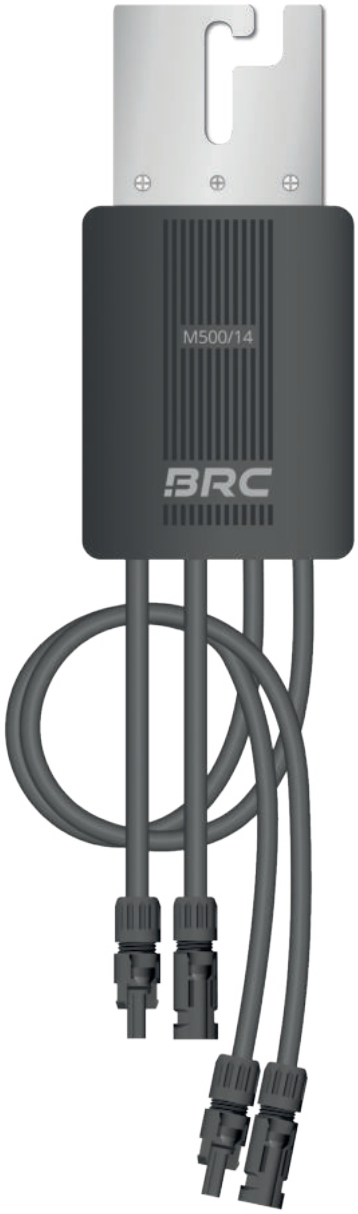

SIMPLE.
SMART.
OPTIMIZED.

**www.brc-solar.de**

04/2023

# TECHNICAL DATA

| | |
|---|---|
| **ELECTRICAL DATA** | |
| INPUT Total Max. Input Voltage | 60 V d.c. at - 40°C (104°F) |
| Input Voltage Range | 16 - 60 V d.c. |
| Rated Current | 14 A d.c. |
| Short Circuit Current | 15 A |
| Maximum Input Power | 500 W |
| Overvoltage Category | II |
| Maximum Efficiency | 99.5% |
| OUTPUT Output Voltage Range | 0 to Voc |
| Output Power Range | 0 W to 500 W |
| Maximum System Voltage | 1000 V |
| Safety Protection Class | II |
| **MECHANICAL DATA** | |
| Dimensions (W x L x H) | 78 mm x 161.5 mm x 30 mm |
| Weight | 500 g |
| Installation | with M8 Screw |
| **PORTS** | |
| Output Cable Length | 1.20 m |
| Connectors | Stäubli MC4 (for 1000V) |
| Conductor Cross-Section | 6.0 mm² |
| **AMBIENT CONDITIONS** | |
| IP-Proctection Class | IP68 |
| Enviromental Operating Temperature Range | - 40°C to + 85°C (- 40°F to + 185°F) |
| Relative Humidity | 0% to 100 % |
| **STANDARDS** | |
| Electromagnetic Compatibility | IEC61000-6-2, IEC61000-6-3 |
| Safety | IEC62109-1, IEC62109-2 |
| RoHS | RoHS compliant |

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## Power Optimizer for photovoltaic systems

**WARRANTY**
Because of our Long-Life-Electronics we grant warranty for 25 years

**LONG-LIFE-ELECTRONICS**
The Power Optimizer posesses a long-life circuit using the newest GaN technology

**MAXIMUM YIELD**
More PV-modules can be installed by using BRC Power Optimizers

**REAL STAND-BY-FUNCTION**
BRC Power Optimizers stay inactive when not needed

Gehrnstraße 7, 76275 Ettlingen, Germany / Tel.: +49 7243 924 1486 / sales@brc-solar.de / www.brc-solar.de