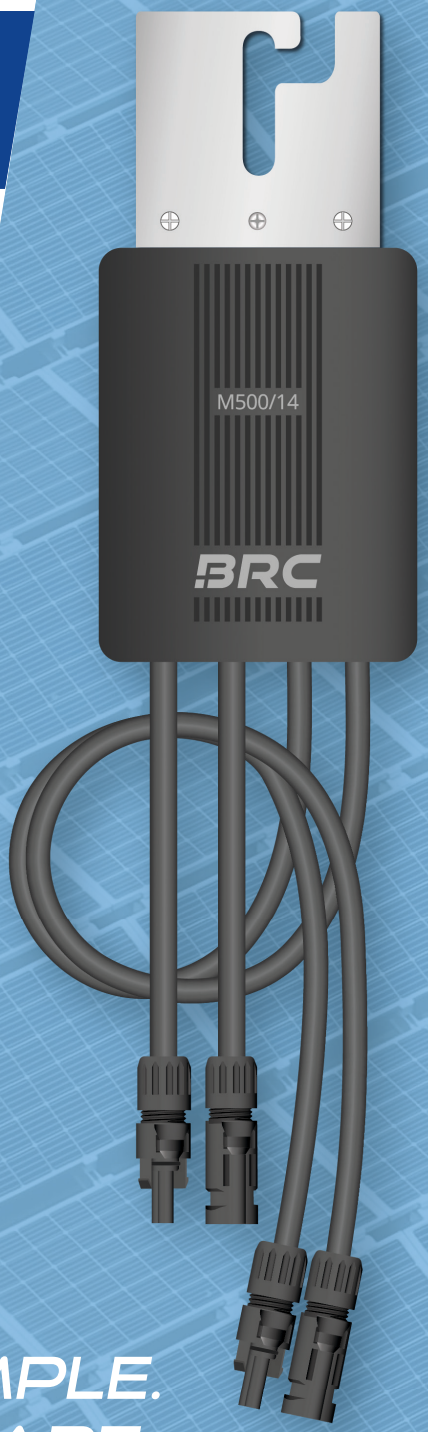
BRC SOLAR

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.

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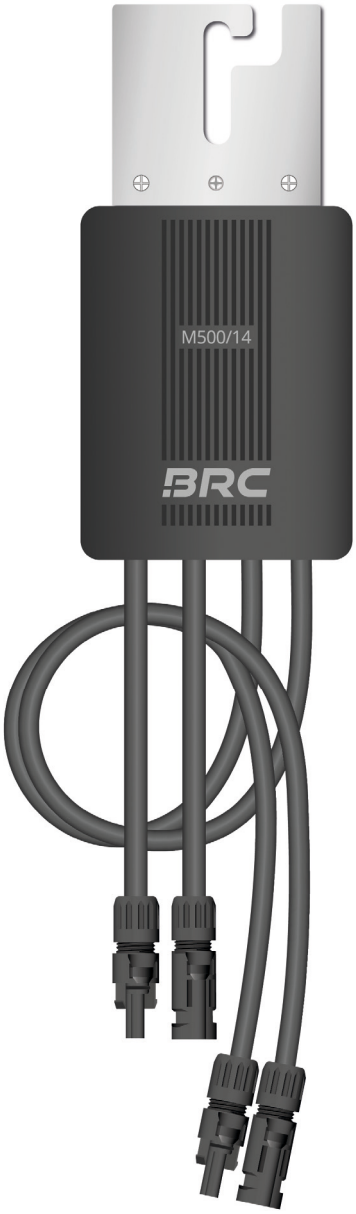
TECHNICAL DATA

	ELECTRICAL DATA	
INPUT	Total Max. Input Voltage	at - 40°C (- 40°F): 60 V d.c
	Rated Current	14 A d.c.
	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 158.5 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	2 PfG 2305/01.18



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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

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