

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



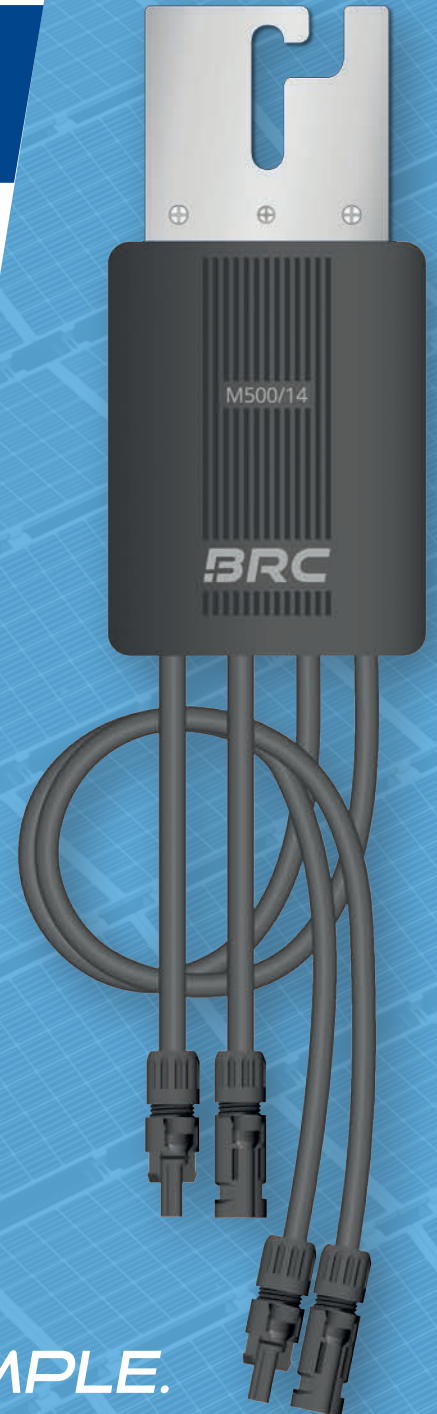
Simplest Installation

No additional software, no app, no special tools required



Maximum Flexibility

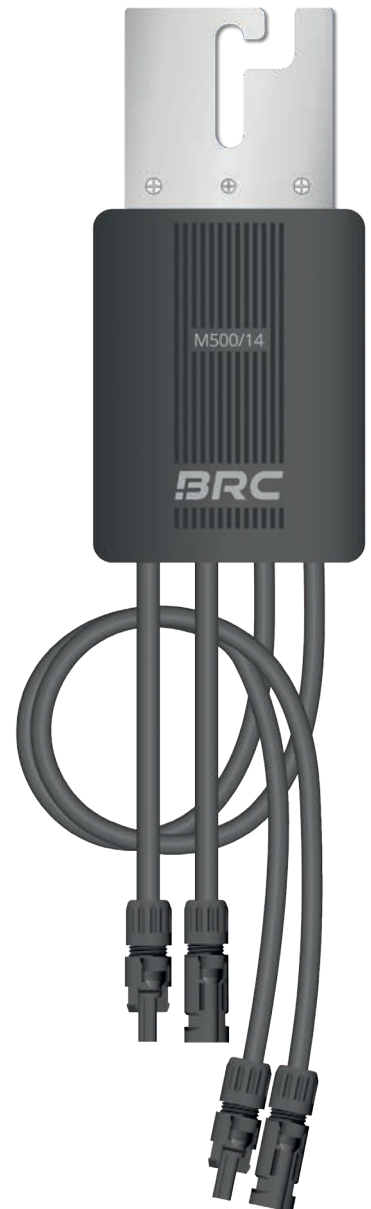
Only needs to be attached to shaded modules



SIMPLE.
SMART.
OPTIMIZED.

TECHNICAL DATA

ELECTRICAL DATA		
INPUT	Total Max. Input Voltage	at - 40°C (104°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 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 mm ²	
AMBIENT CONDITIONS		
IP-Protection Class	IP68	
Environmental 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	



Power Optimizer for photovoltaic systems



WARRANTY

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



LONG-LIFE-ELECTRONICS

The Power Optimizer possesses 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

