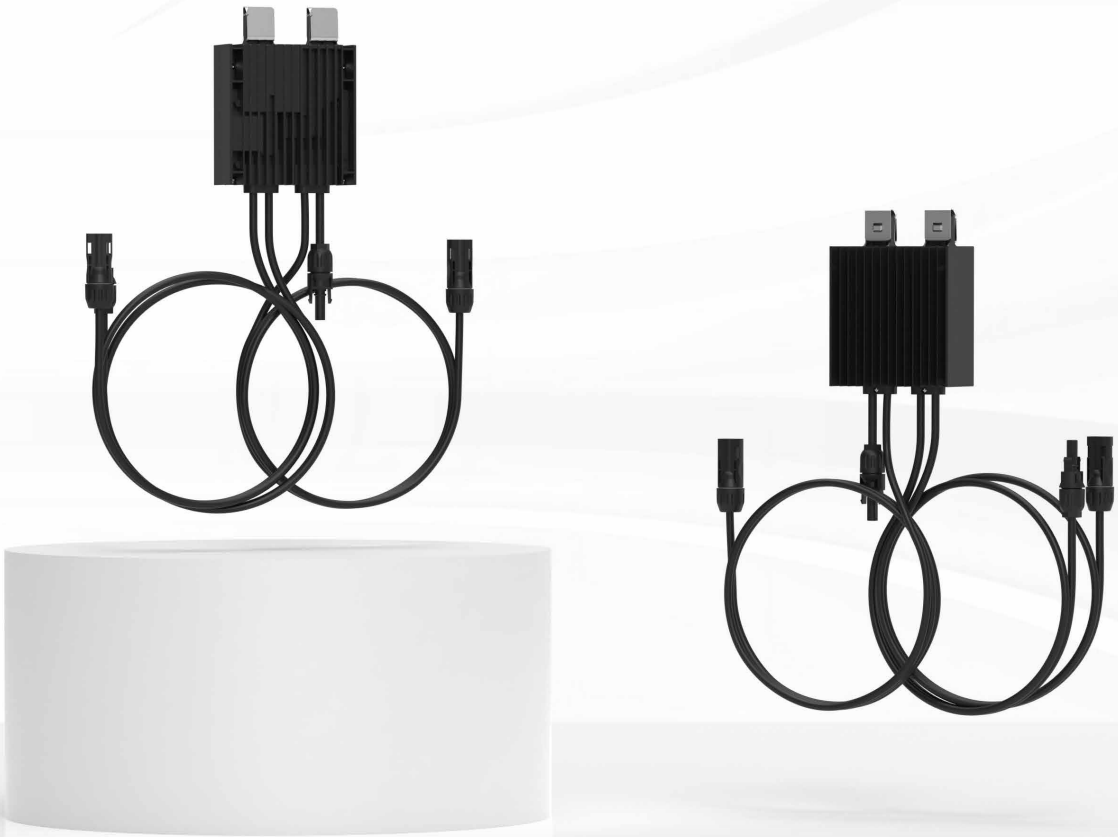
PV Module Optimizer

SUN-OPTMZ01-STR2-20A



Superb Performance

- 99.6% high efficiency
- 20A high output current, compatible with mainstream PV modules

Power Optimization & Flexible Deployment

- Independent MPPT for higher energy yield
- Flexible installation for roofs with various orientations and tilt angles

Enhanced Safety & Protection

- IP68 rated protection for harsh environments
- Over-temperature protection with auto shutdown and restart
- Rapid shutdown reduces voltage to a safe level in an emergency*

Smart O&M*

- Accurate fault localization & efficient precise troubleshooting
- Remote monitoring via Deye Cloud

*These functions are only available when used with Concentrator.

Technical Data

Model	SUN-OPTMZ01-STR2-20A
Input Data	
Max. PV power (W)	1600
Max. Input Voltage (V)	120
MPPT Voltage Range (V)	20-120
Max. Input Short-Circuit Current (A)	30
Max. Operating Input Current (A)	20
Max. Efficiency	99.6%
Over Voltage Category	OVC II
Output Data	
Max. Output Voltage (V)	120
Max. Output Current (A)	20
Output bypass[1]	Yes
Output voltage during standby per optimizer	1V
General Data	
Operating Temperature Range	-40℃-70℃[2]
Permissible Ambient Humidity	0-100%RH
Permissible Altitude	4000m
Ingress Protection (IP) Rating	IP 68
Input connector	PV005
Input wire length	1.4m x 2
Output connector	PV005
Output wire length	3m+0.12m
Cabinet Size（W*H*D）[mm]	96.6 x 134.5 x 45.6
Weight[kg]	1kg
Warranty	10 years
Type Of Cooling	Natural cooling
EMC Standard	EN61000-6-1/2/3/4, EN 55011:2016/A2:2021, EN62920:2017/A1:2021
Safety Standard	IEC62109-1 (class II safety)

[1] *Any power optimizer, which is connected to an operating inverter in a PV string, will be bypassed when it fails.

[2] *When the ambient temperature of the optimizer reaches 70 °C to 85 °C, it may shut down due to over-temperature protection . After the temperature decreases, it can automatically resume working without causing any damage.