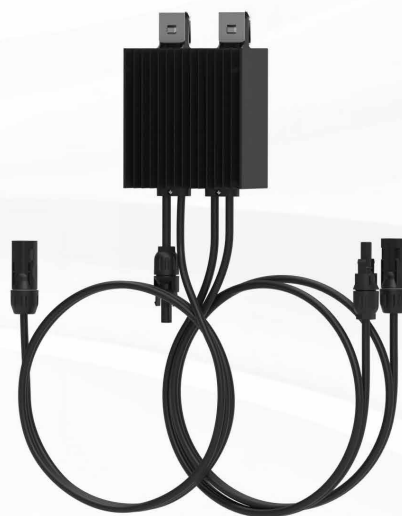


PV Module Optimizer

SUN-OPTMZ01-STR2-20A



Superb Performance

- 99.5% 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.

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°C-70°C ^[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.