



# 质胜中国

2020光伏盛典

Solar Congress 2020



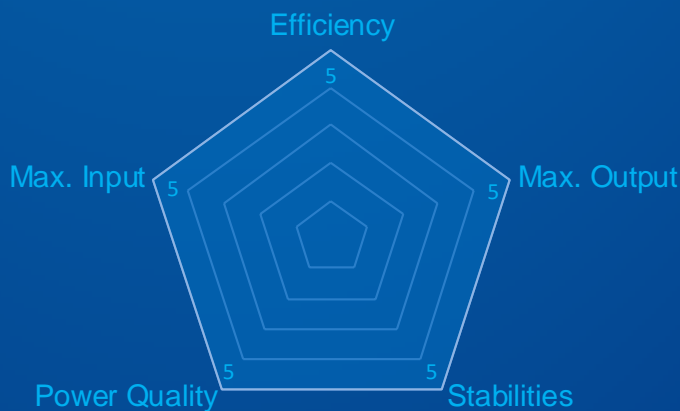
Precisely Right.

2019

阳光电源  
**SUNGROW**

# ALL QUALITY MATTERS REPORT

## SG20RT-20



RANK	SCORE
1	25.0

**PRODUCT DATASHEET****DC Input:**

<input checked="" type="checkbox"/> $V_{MAX}$ PV [ $V_{dc}$ ]	1100
<input checked="" type="checkbox"/> $I_{sc}$ PV [A]	32.0 / 32.0
<input checked="" type="checkbox"/> MPP Range $V_{MPP}$ [ $V_{dc}$ ]	160-1000
<input checked="" type="checkbox"/> Full Power MPP Range [ $V_{dc}$ ]	430-850
<input checked="" type="checkbox"/> Max. Input Current $I_{max}$ [A]	25.0 / 25.0
<input checked="" type="checkbox"/> MPP Tracking String	2

**AC Output:**

<input checked="" type="checkbox"/> Rated Output Voltage [ $V_{ac}$ ]	3/N/PE 400
<input checked="" type="checkbox"/> Voltage Range [ $V_{ac}$ ]	270-480
<input checked="" type="checkbox"/> Rated Output Frequency [Hz]	50
<input checked="" type="checkbox"/> Frequency Range [Hz]	45 - 55
<input checked="" type="checkbox"/> Rated Output Power [kW]	20.0
<input checked="" type="checkbox"/> Max. Output Current [A]	31.9

**General:**

<input checked="" type="checkbox"/> Protective Class	Class I	<input checked="" type="checkbox"/> Pollution Degree	PD 3
<input checked="" type="checkbox"/> Operating Temp Range [ $^{\circ}C$ ]	-25 to 60	<input checked="" type="checkbox"/> Dimension [mm]	370*480*195
<input checked="" type="checkbox"/> Altitude [m]	4000	<input checked="" type="checkbox"/> Noise [dB]	< 30
<input checked="" type="checkbox"/> IP code	IP65	<input checked="" type="checkbox"/> Night Loss [W]	< 1

**Compliance:**

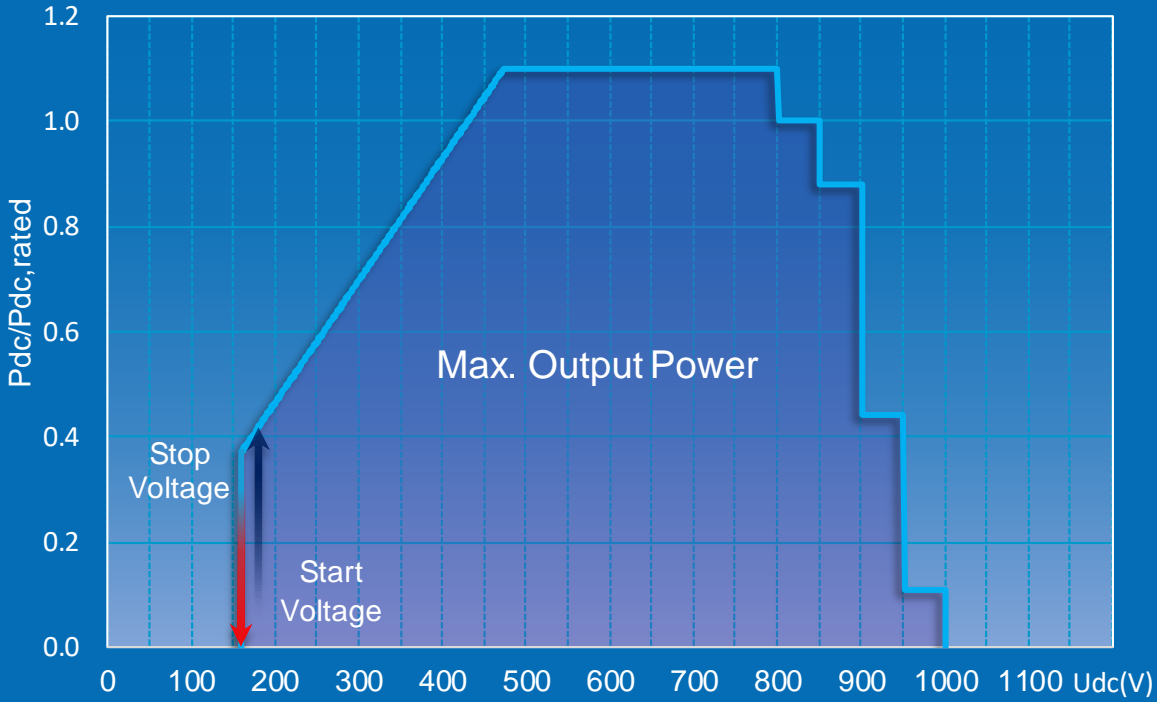
<input checked="" type="checkbox"/> Safety & EMC IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1, IEC/EN 61000-6-3, IEC/EN 61000-6-2, IEC/EN 61000-6-4	<input checked="" type="checkbox"/> Grid Code: VDE-AR-N 4105: 2018
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**Additional Functions:**

<input type="checkbox"/> High Power Density	<input checked="" type="checkbox"/> High Altitude
<input type="checkbox"/> Special Environment	<input type="checkbox"/> Arcing Detector
<input checked="" type="checkbox"/> GFCI / RCMU	<input type="checkbox"/> Anti PID
<input checked="" type="checkbox"/> FVRT	<input type="checkbox"/> PV Rapid Shutdown
<input type="checkbox"/> IV Curve Tracing	<input type="checkbox"/> Anti Cloud Edge Effect

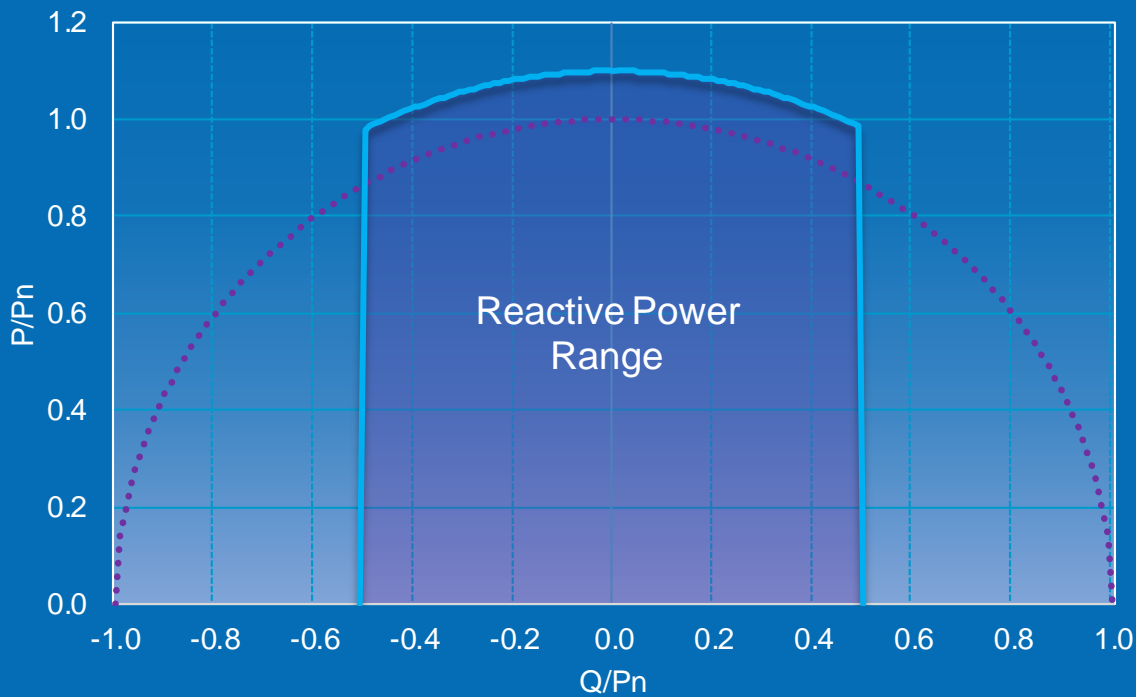
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### MAX. INPUT POWER



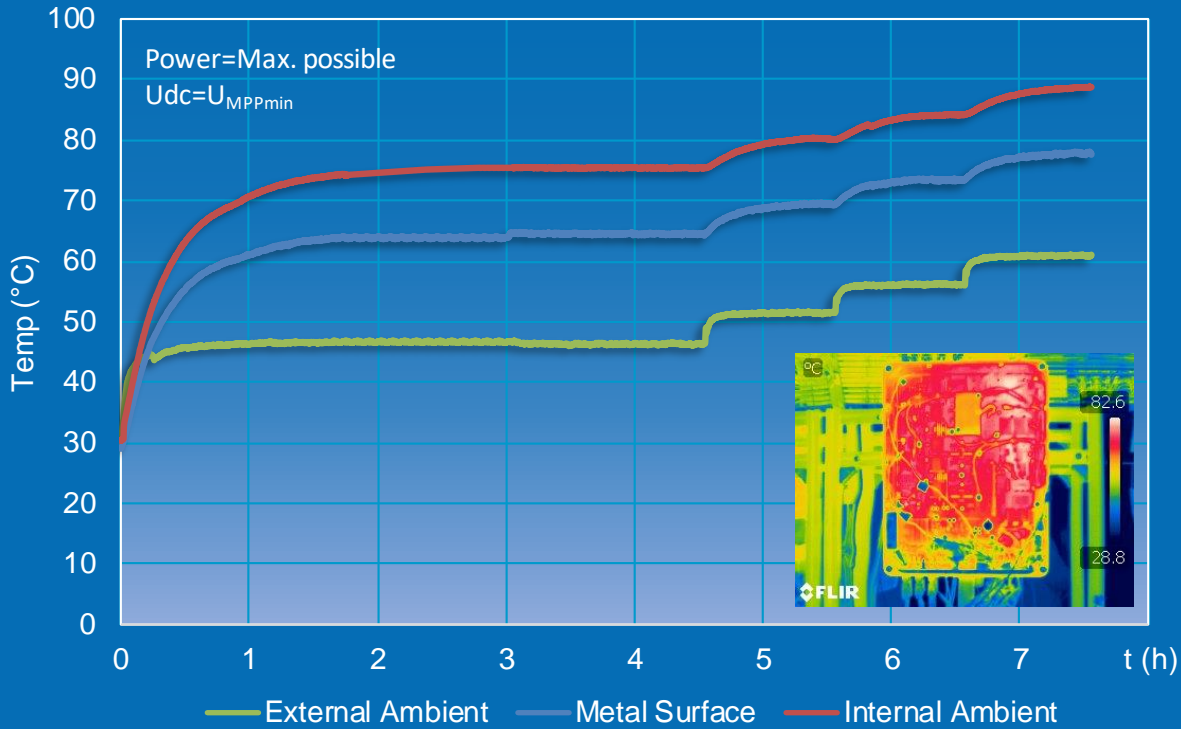
MPPT Range:  
160-1000V  
MPPT Full Power  
Range:  
430-850V  
Start Voltage:  
180V  
Stop Voltage:  
160V

### MAX. OUTPUT POWER



Reactive Power  
Range:  
[-50%P<sub>n</sub>, 50%P<sub>n</sub>]  
Max. Apparent  
Power: 110%P<sub>n</sub>

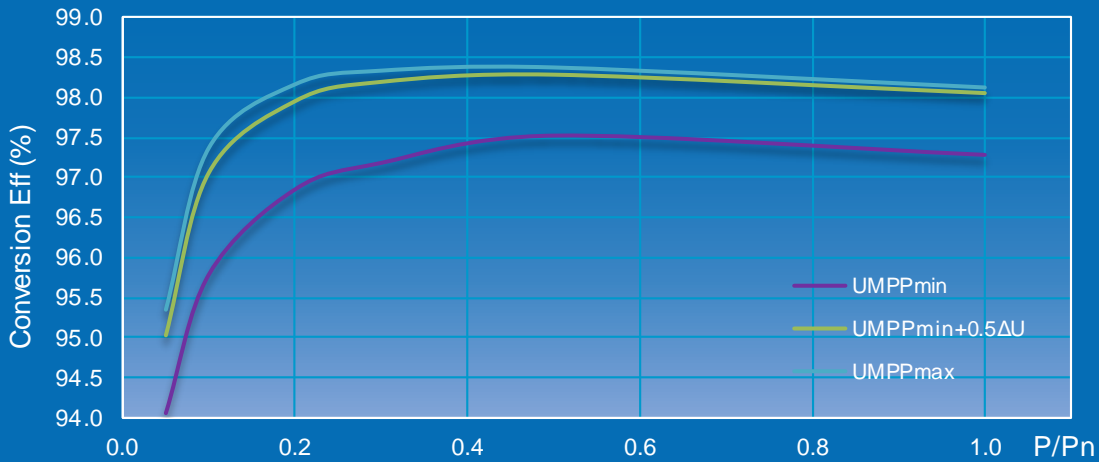
**THERMAL STABILITIES**



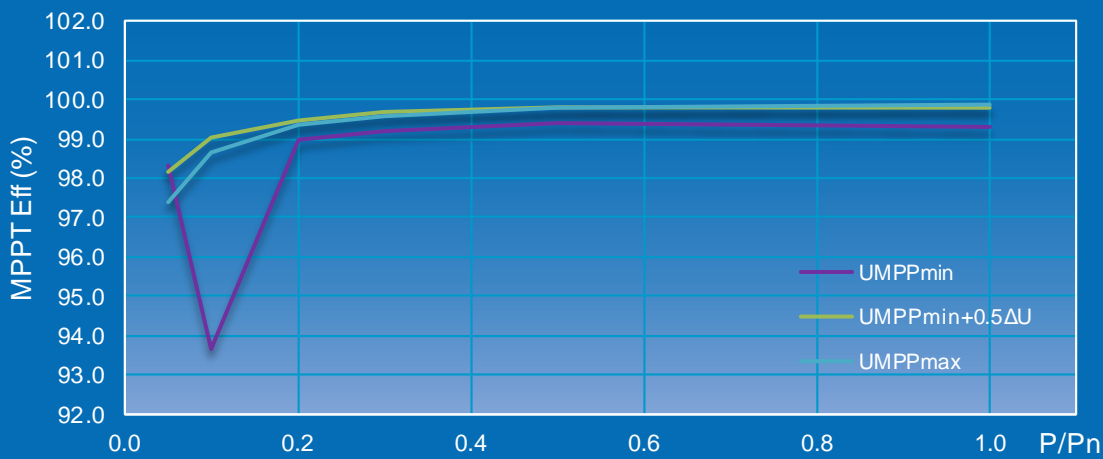
Internal T<sub>max</sub>:  
88.8°C  
Surface T<sub>max</sub>:  
78.1°C



### CHINA EFFICIENCY



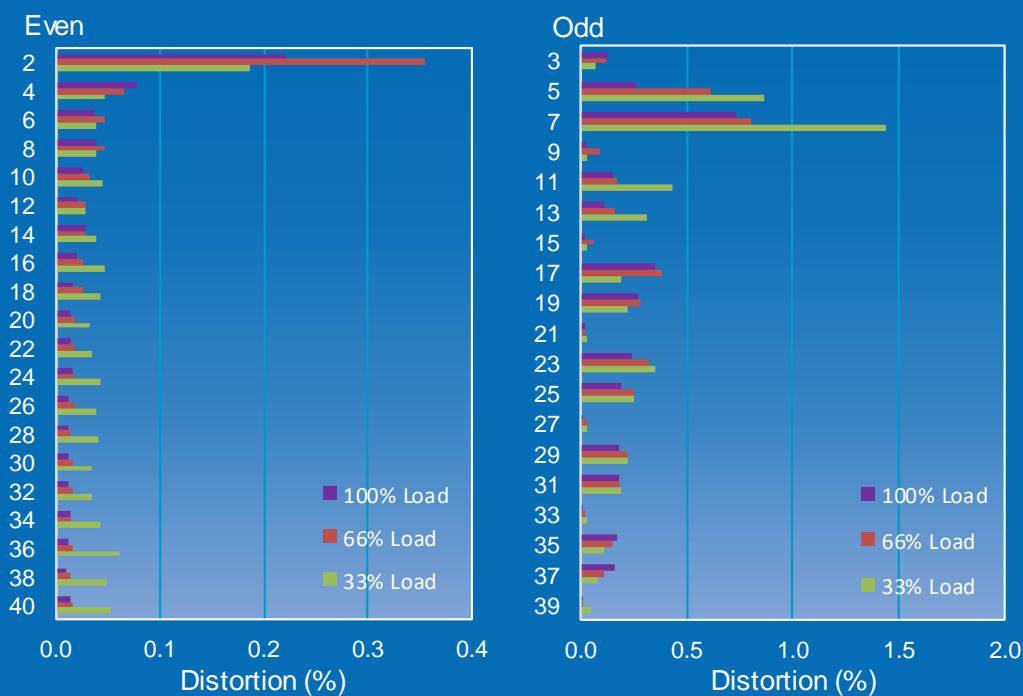
$\eta_{max}$ : 98.37%



$\eta_{MPP max}$ : 99.87%

Max.  $\eta_{Europe}$ :  
97.66%

### POWER QUALITY



THD max: 1.92%

