



# 质胜中国

2020光伏盛典

Solar Congress 2020



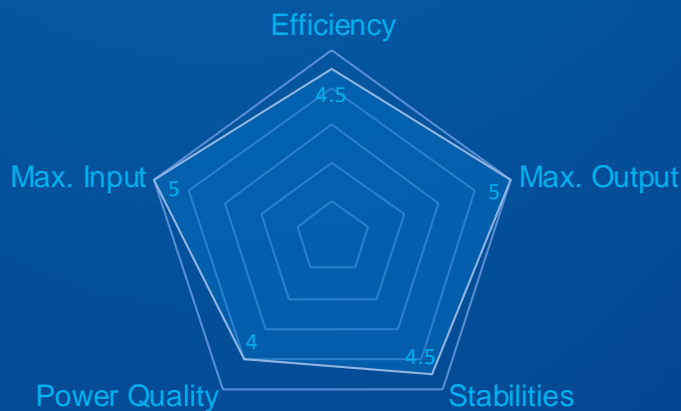
Precisely Right.

**2019**



# ALL QUALITY MATTERS REPORT

## Solis-50K-HV-5G



RANK	SCORE
1	23.0

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

<input checked="" type="checkbox"/> $V_{MAX}$ PV [V <sub>dc</sub> ]	1100
<input checked="" type="checkbox"/> $I_{sc}$ PV [A]	4*40.0
<input checked="" type="checkbox"/> MPP Range $V_{MPP}$ [V <sub>dc</sub> ]	200-1000
<input checked="" type="checkbox"/> Full Power MPP Range [V <sub>dc</sub> ]	500-850
<input checked="" type="checkbox"/> Max. Input Current $I_{max}$ [A]	4*26.0
<input checked="" type="checkbox"/> MPP Tracking String	4

**AC Output:**

<input checked="" type="checkbox"/> Rated Output Voltage [V <sub>ac</sub> ]	3/PE 480
<input checked="" type="checkbox"/> Voltage Range [V <sub>ac</sub> ]	384-550
<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]	50.0
<input checked="" type="checkbox"/> Max. Output Current [A]	66.2

**General:**

<input checked="" type="checkbox"/> Protective Class	Class I	<input checked="" type="checkbox"/> Pollution Degree	PD 3
<input checked="" type="checkbox"/> Operating Temp Range [°C]	-25 to 60	<input checked="" type="checkbox"/> Dimension [mm]	647*629*252
<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:**

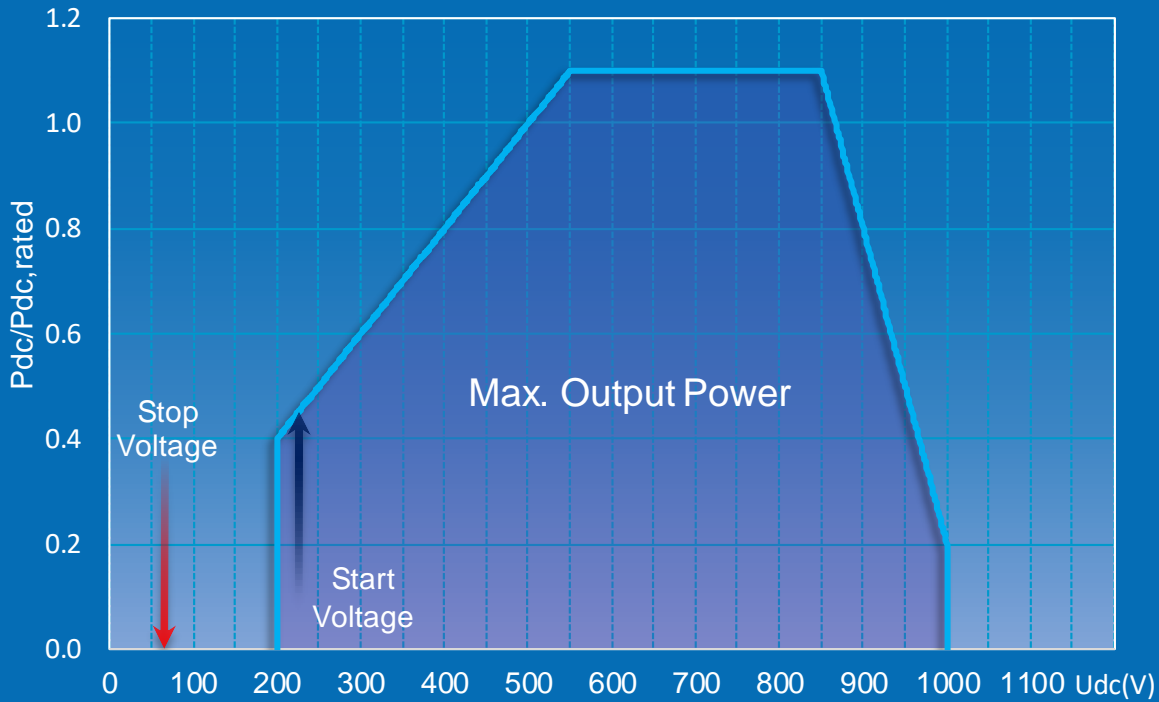
<input checked="" type="checkbox"/> Compliance: IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1, IEC/EN 61000-6-3, IEC/EN 61000-6-2, IEC/EN 61000-6-4	<input checked="" type="checkbox"/> Grid Code: VDE-AR-N 4105: 2018
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**Additional Functions:**

<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 checked="" type="checkbox"/> Anti PID
<input checked="" type="checkbox"/> FVRT	<input type="checkbox"/> PV Rapid Shutdown
<input checked="" type="checkbox"/> IV Curve Tracing	<input type="checkbox"/> Anti Cloud Edge Effect

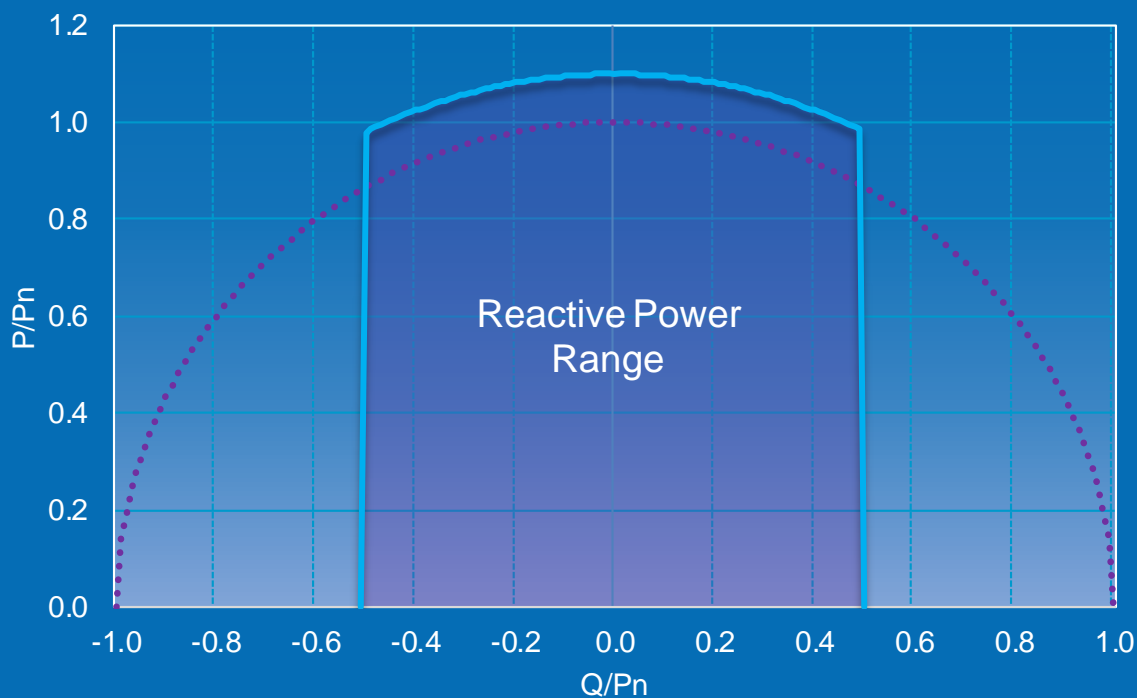
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### MAX. INPUT POWER



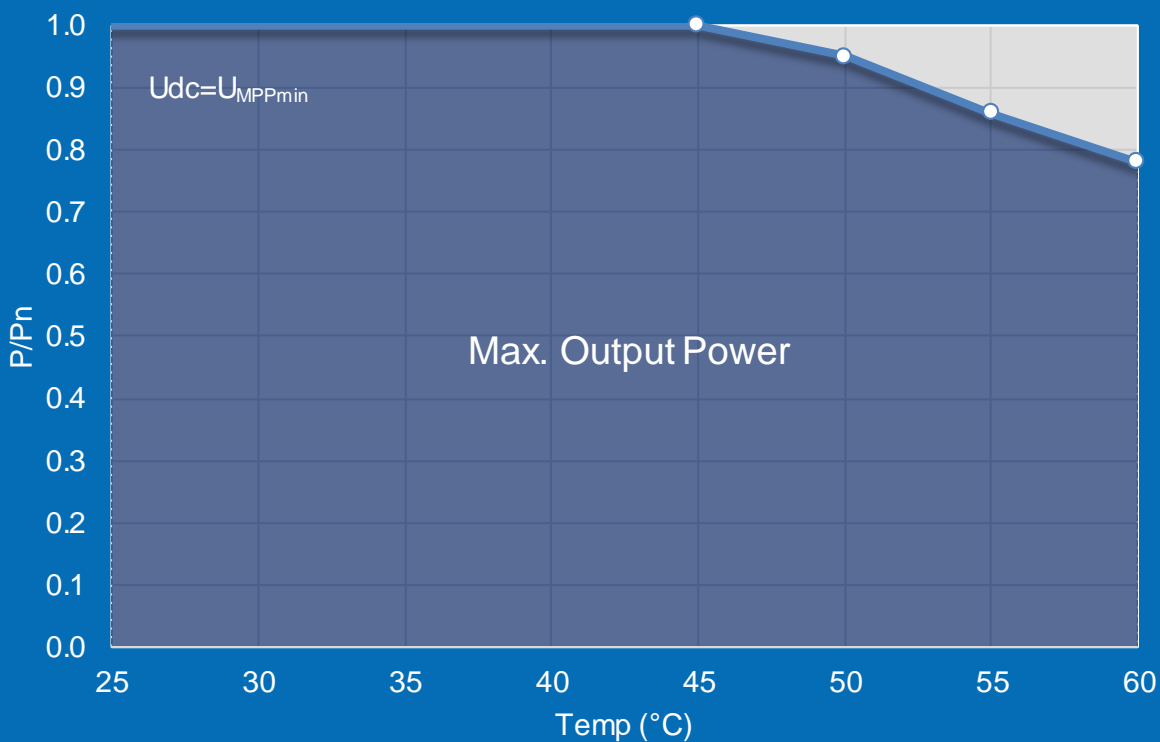
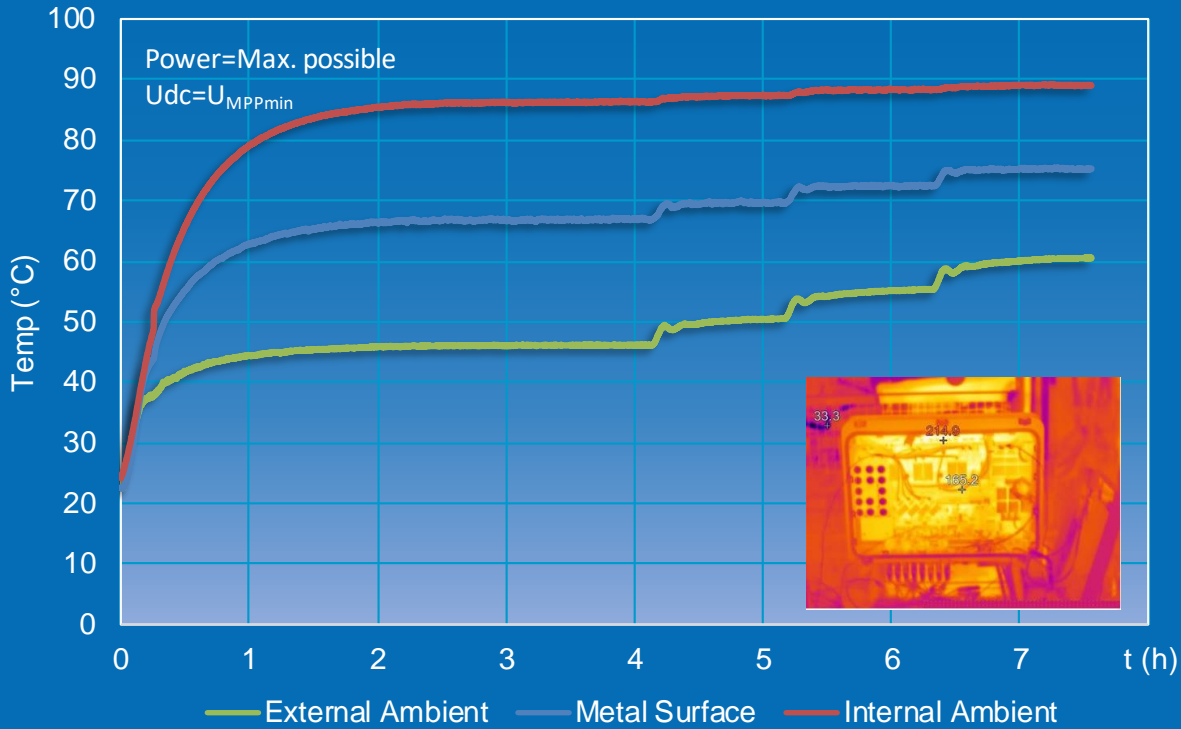
MPPT Range:  
200-1000V  
MPPT Full Power  
Range:  
500-850V  
Start Voltage:  
225V  
Stop Voltage:  
65V

### MAX. OUTPUT POWER

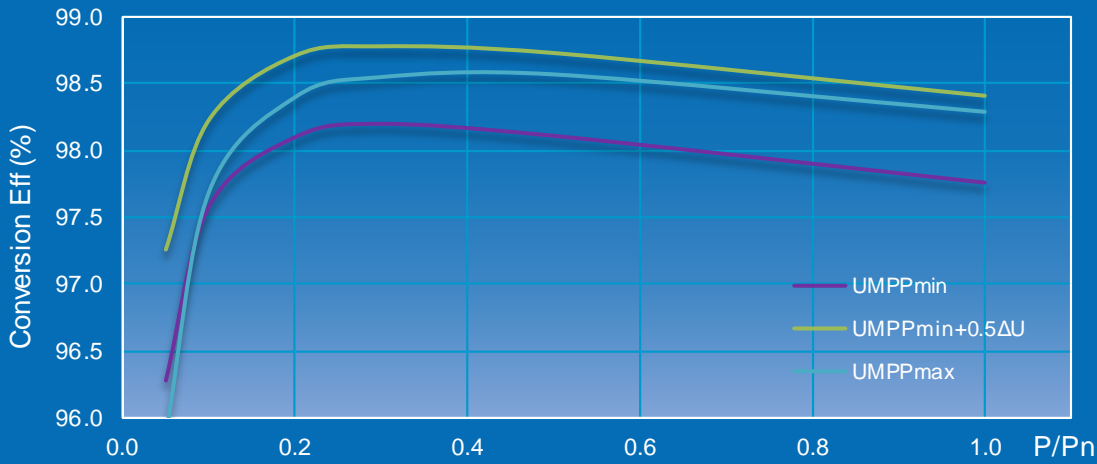


Reactive Power  
Range:  
[-50%P<sub>n</sub>, 50%P<sub>n</sub>]  
Max. Apparent  
Power: 110%P<sub>n</sub>

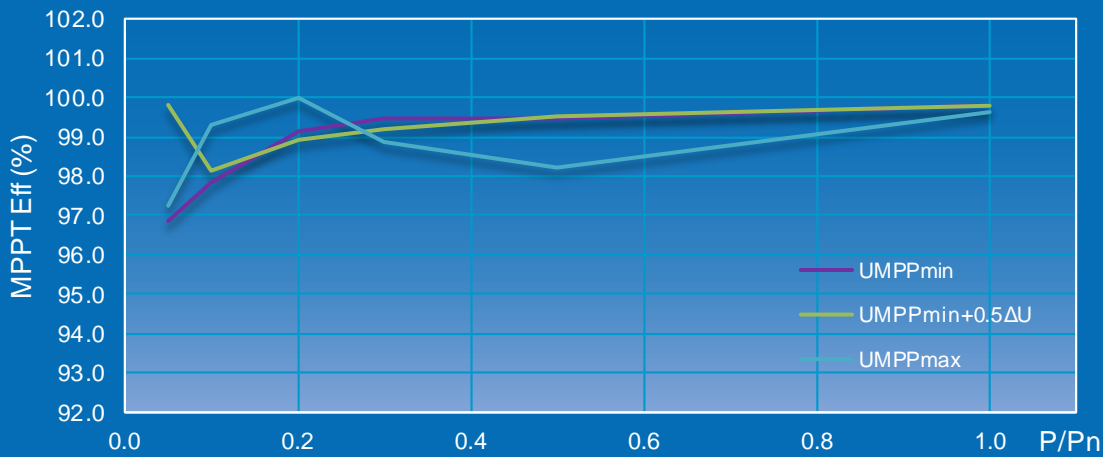
**THERMAL STABILITIES**



### CHINA EFFICIENCY



$\eta_{max}$ : 98.78%

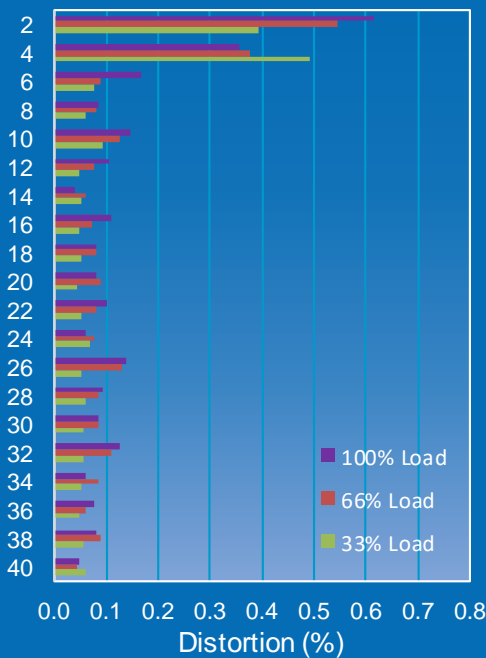


$\eta_{MPP max}$ : 99.9%

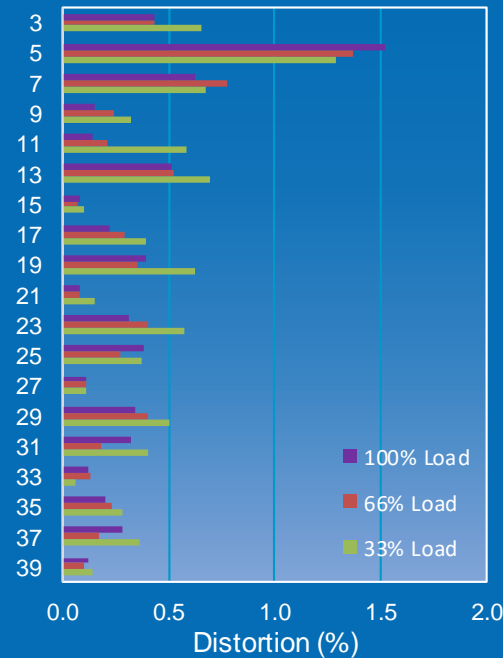
**Max.  $\eta_{Europe}$ : 98.00%**

### POWER QUALITY

Even



Odd



$I_{THD max}$ : 2.47%

