





ALL QUALITY MATTERS REPORT

Suntrio Plus 33K



RANK	SCORE
1	20

RATINGS CHECKED

DC Input:

<input checked="" type="checkbox"/> V_{MAX} PV [V_{dc}]	1000
<input checked="" type="checkbox"/> I_{sc} PV [A]	26.4/26.4/26.4
<input checked="" type="checkbox"/> MPP Range V_{MPP} [V_{dc}]	160-900
<input checked="" type="checkbox"/> Full Power MPP Range [V_{dc}]	600-900
<input checked="" type="checkbox"/> Max. Input Current I_{max} [A]	22/22/22
<input checked="" type="checkbox"/> MPP Tracking String	3

AC Output:

<input checked="" type="checkbox"/> Rated Output Voltage [V_{ac}]	230
<input checked="" type="checkbox"/> Voltage Range [V_{ac}]	184-264.5
<input checked="" type="checkbox"/> Rated Output Frequency [Hz]	50 / 60
<input checked="" type="checkbox"/> Frequency Range [Hz]	45-55/55-65
<input checked="" type="checkbox"/> Rated Output Power [kW]	30.0
<input checked="" type="checkbox"/> Max. Output Current [A]	50.0

Others:

<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]	700*530*260

ENTRY REQUIREMENTS

- Compliance:
 - IEC/EN 62109-1, IEC/EN 62109-2
 - IEC/EN 61000-6-1, IEC/EN 61000-6-3
- Grid Code:
 - VDE-AR-N 4105, IEC 61727, IEC 62116
- Reliability: MTBF, λ

GENERAL FACTORS

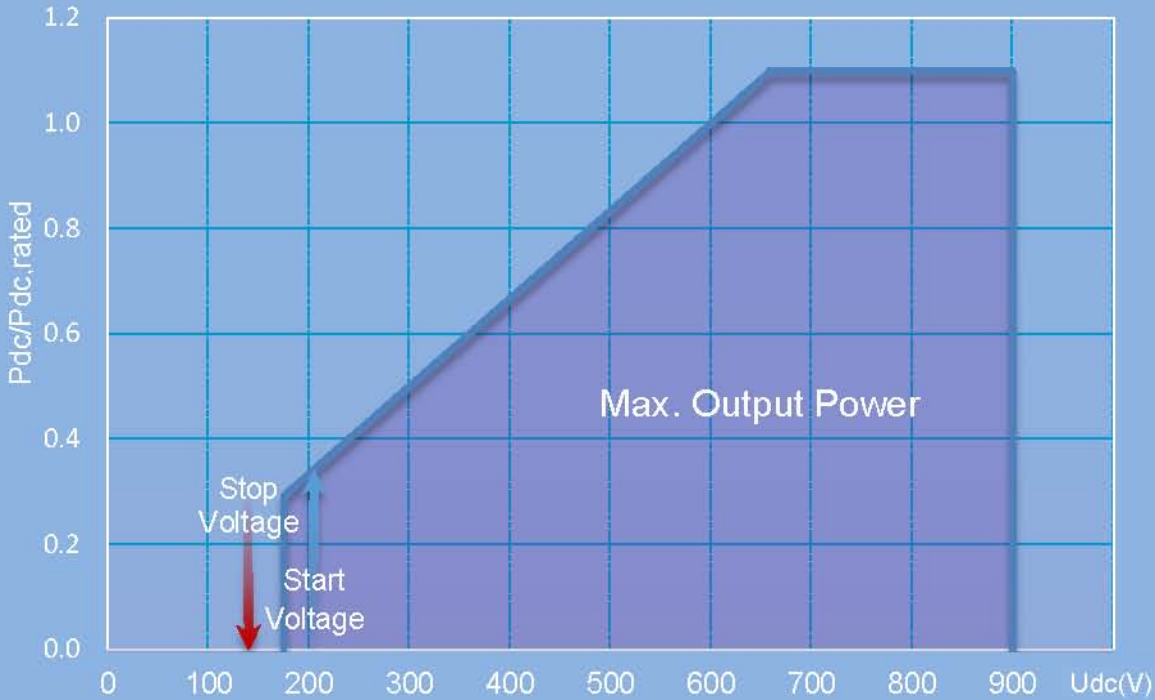
- Noise [dB] < 35
- Altitude [m] 3000
- Night Loss [W] < 0.6
- IP code IP65
- Max. Temperature [$^{\circ}C$] 60

INNOVATION INDICATORS

- | | |
|---|---|
| <input type="checkbox"/> High Power Density | <input 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 type="checkbox"/> LVRT | <input type="checkbox"/> HVRT |
| <input type="checkbox"/> IV Curve Tracing | <input type="checkbox"/> Anti Cloud Edge Effect |

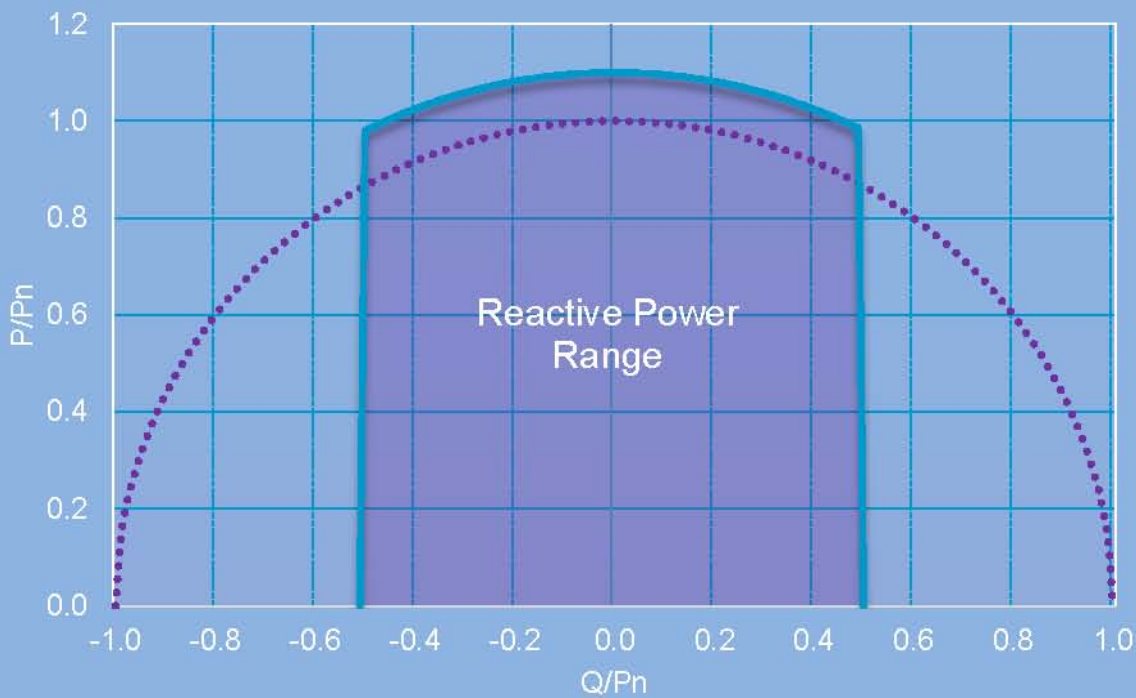
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MAX. INPUT POWER



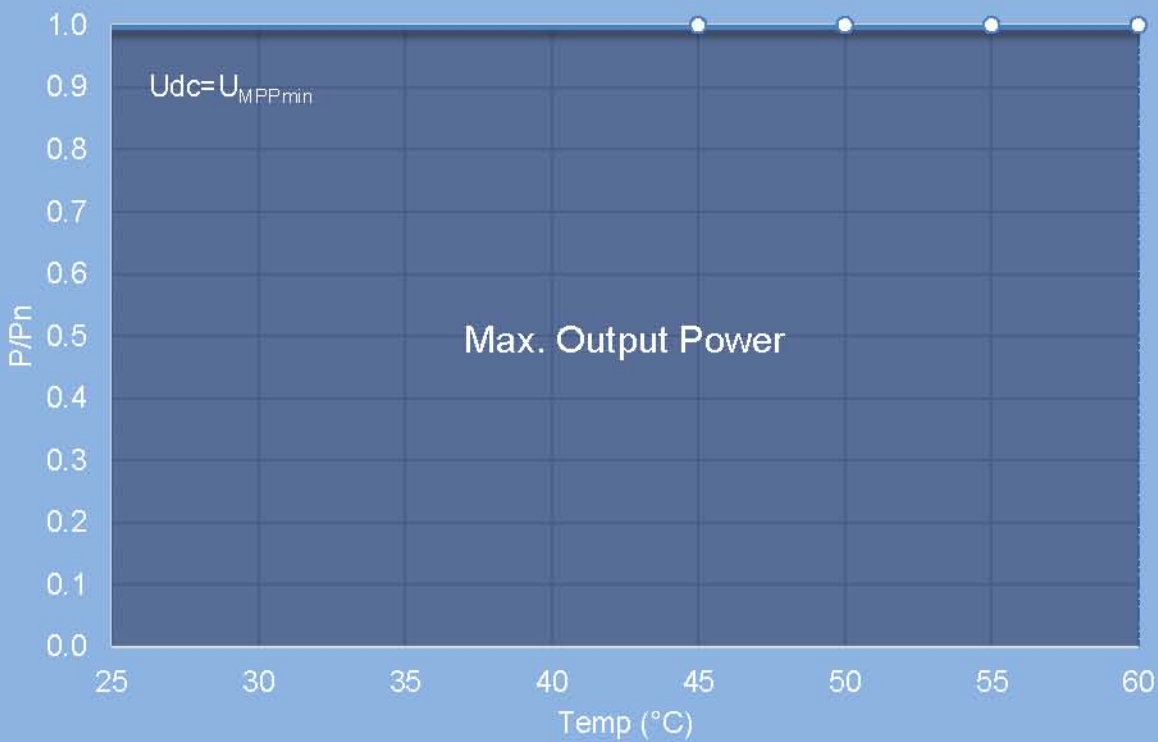
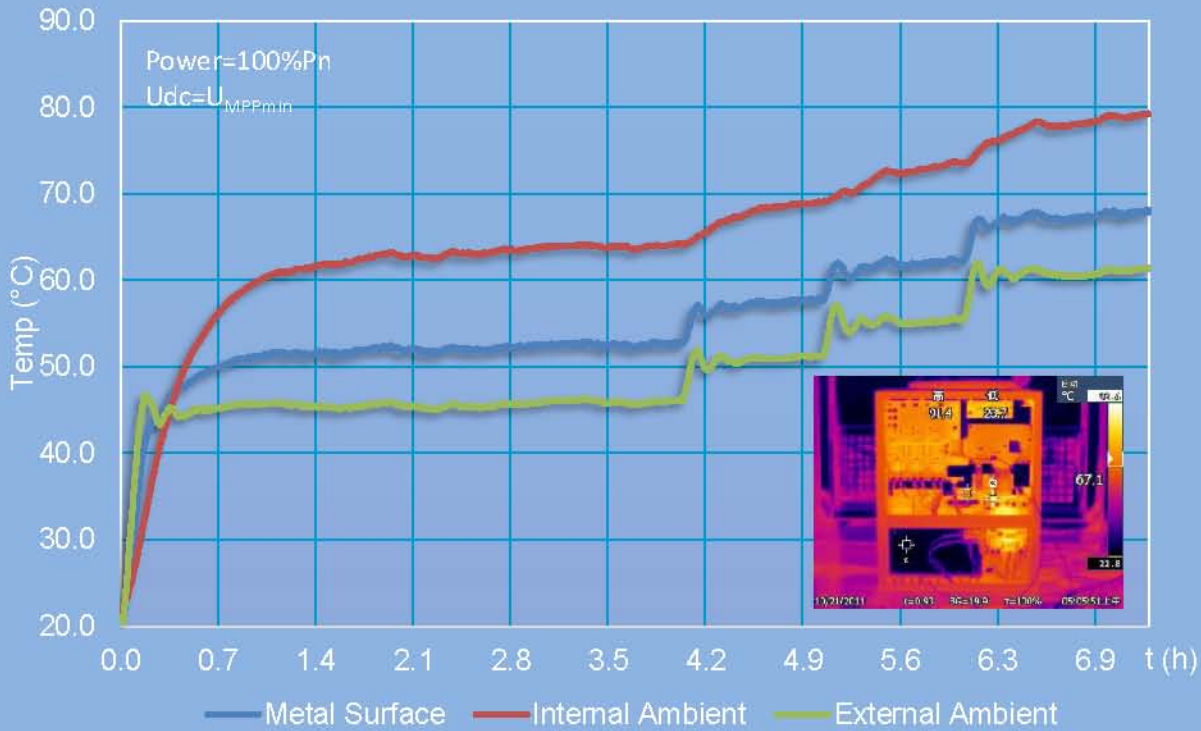
MPPT Range:
175-900V
MPPT Full Power
Range:
600-900V
Start Voltage:
205V
Stop Voltage:
140V

MAX. OUTPUT POWER

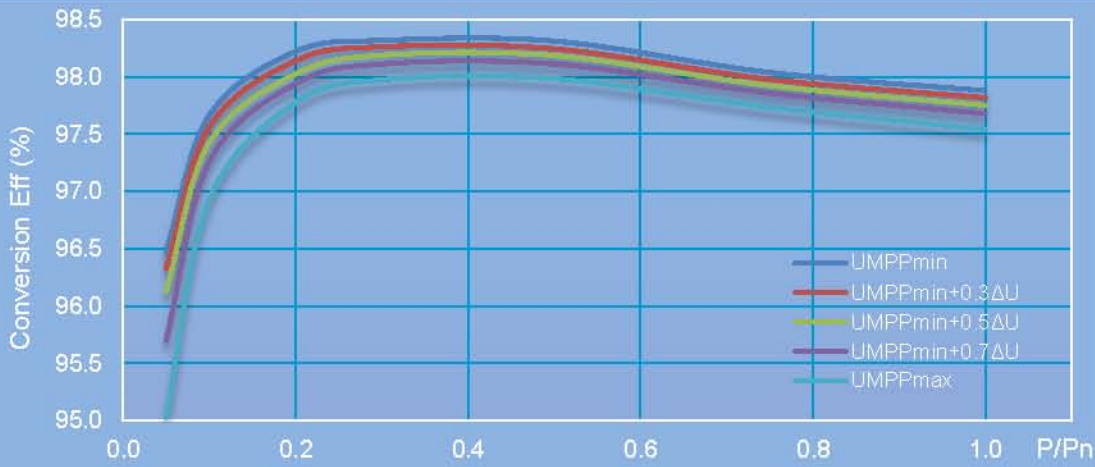


Reactive Power
Range:
[-50%Pn,50%Pn]
Max. Apparent
Power: 110%Pn

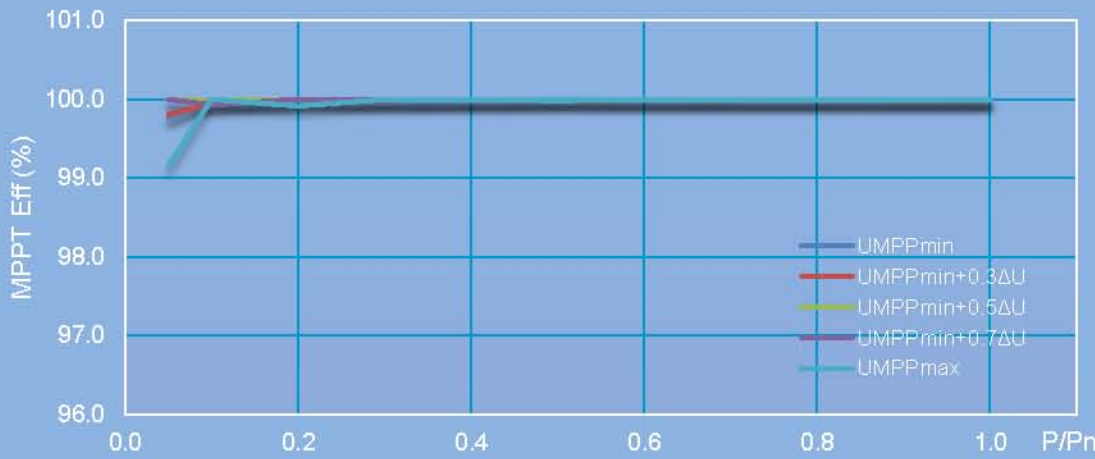
THERMAL STABILITIES



CHINA EFFICIENCY



η_{max} 98.32%

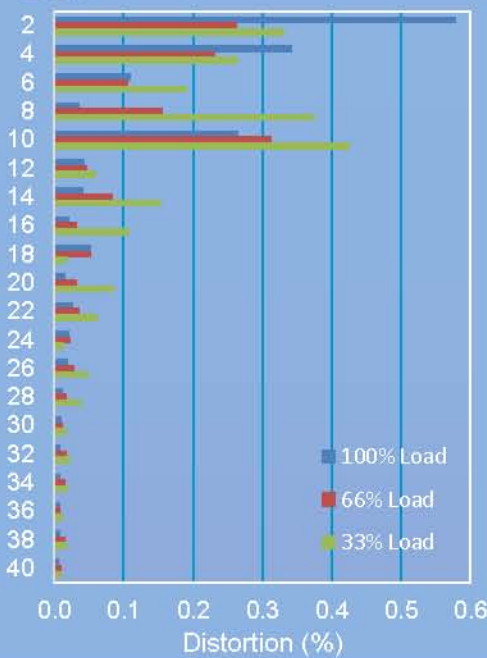


η_{MPPmax} 99.99%

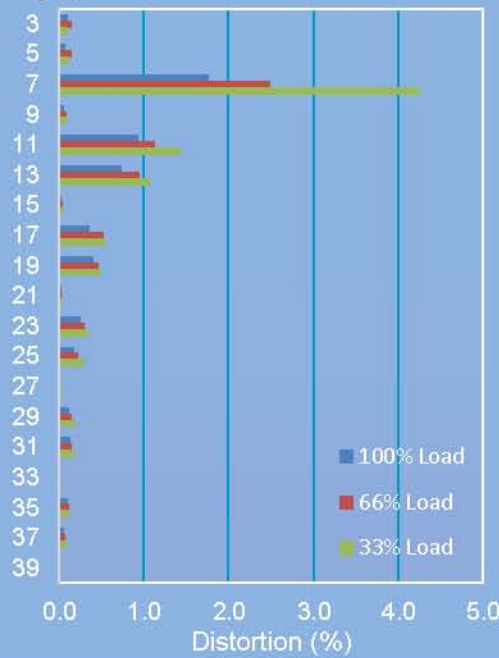
η_{China} 97.92%

POWER QUALITY

Even



Odd



I_{THDmax} 4.75%

