

SLX 65-1000 Preliminary 9-7-17

Grid inverter definition

Main parameters | Efficiency curve | Additional parameters | Output parameters | Sizes and operation | Commercial

Model: SLX 65-1000 Preliminary 9-7-17 Manufacturer: Yaskawa Solectria Solar
File name: Yaskawa SLX 65-1000 Preliminary 9-7-17 .OND Data source: Manufacturer 2017
Custom parameters definition

Input side (DC PV field)

Minimum MPP Voltage	300	V
Min. Voltage for PNom	600	V
Nominal MPP Voltage	730	V
Maximum MPP Voltage	850	V
Absolute max. PV Voltage	1000	V
Power Threshold	325	W

Contractual specifications, without real physical meaning ? Required

Nominal PV Power	65	kW	
Maximum PV Power	98	kW	<input checked="" type="checkbox"/>
Maximum PV Current	110	A	<input checked="" type="checkbox"/>

Output side (AC grid)

Monophased Frequency: 50 Hz 60 Hz
 Triphased
 Biphased

Grid Voltage	480	V	
Nominal AC Power	65	kVA	
Maximum AC Power	65	kVA	
Nominal AC current	72	A	<input type="checkbox"/>
Maximum AC current	72	A	<input type="checkbox"/>

Efficiency

Maximum efficiency 98.40 % ?

Efficiency defined for 3 voltages

Copy to table Print Cancel OK

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Description **Yaskawa Solectria Solar, SLX 65-1000 Preliminary 9-7-17**

Input voltage

- High voltage 850 V
- Medium voltage 730 V
- Low voltage 600 V

Automatic profile

- Builds profile from given efficiencies
- Max. efficiency 97.73 %
- EURO efficiency 97.59 % ?
- CEC efficiency

Display mode

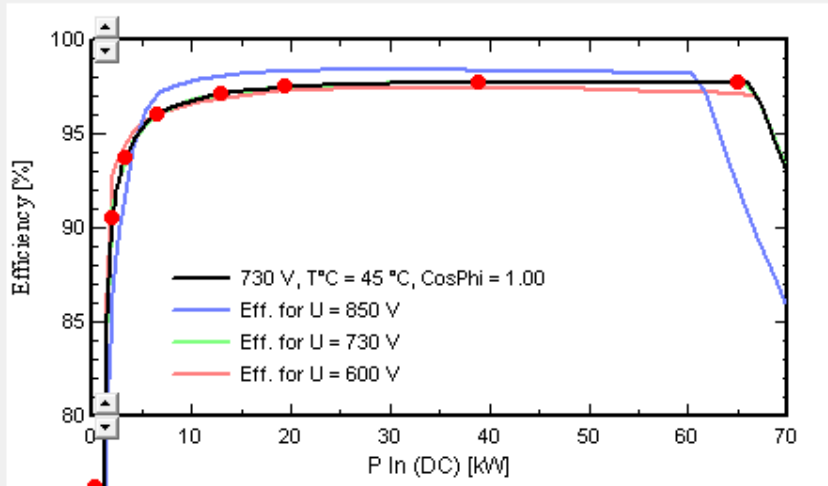
- Efficiency= f (P In) Show behaviour at 45 °C ?
- Efficiency= f (P Out) and CosPhi = 1.00
- P Out = f (P In) Show where POut limitation starts

Units

- Watts
- kW

Values

P In (DC)	Efficiency [%]
Thresh. 0.325	0.00
1.950	90.55
3.250	93.67
6.500	95.99
13.000	97.12
19.500	97.46
39.000	97.73
65.000	97.72



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Input voltage

- High voltage 850 V
- Medium voltage 730 V
- Low voltage 600 V

Automatic profile

- Builds profile from given efficiencies
- Max. efficiency 97.41 %
- EURO efficiency 97.27 % ?
- CEC efficiency

Display mode

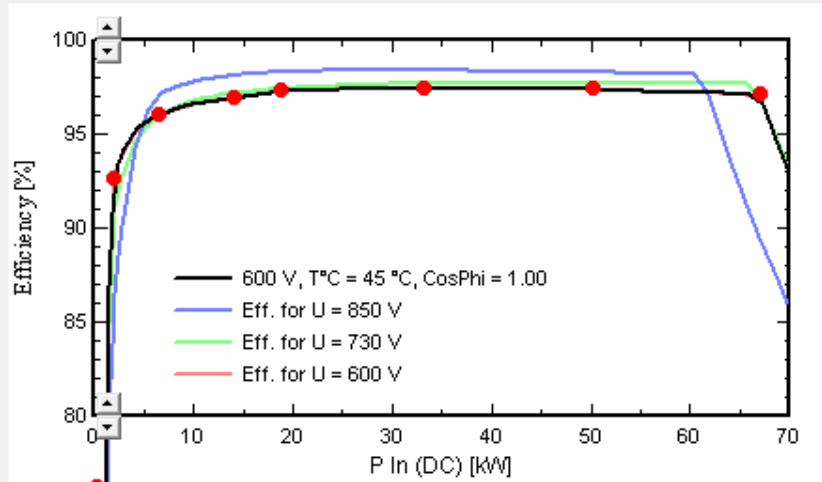
- Efficiency = f (P In) Show behaviour at 45 °C ?
- Efficiency = f (P Out) and CosPhi = 1.00
- P Out = f (P In) Show where POut limitation starts

Units

- Watts
- kW

Values

	P In (DC)	Efficiency [%]
Thresh.	0.325	0.00
	1.991	92.59
	6.500	96.00
	14.075	96.94
	18.866	97.29
	33.315	97.41
	50.197	97.35
	67.189	97.10



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Description **Yaskawa Solectria Solar, SLX 65-1000 Preliminary 9-7-17**

Input voltage

High voltage V
 Medium voltage V
 Low voltage V

Automatic profile

Builds profile from given efficiencies
 Max. efficiency %
 EURO efficiency % ?
 CEC efficiency

Display mode

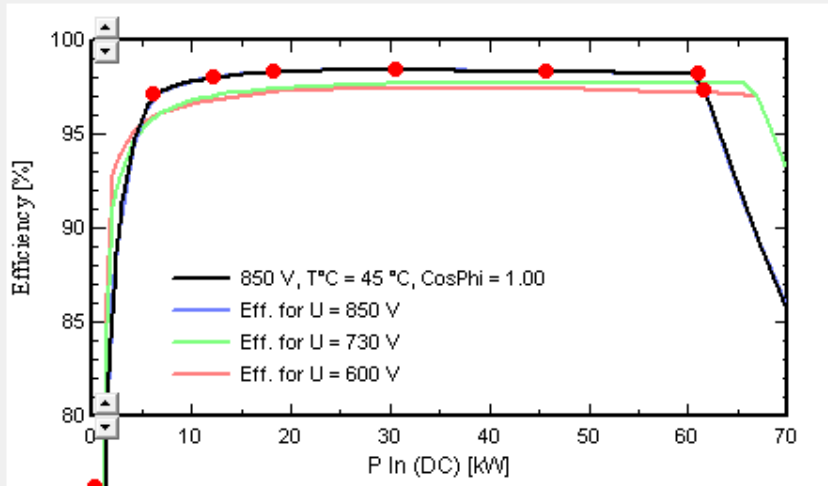
Efficiency = f (P In) Show behaviour at °C ?
 Efficiency = f (P Out) and CosPhi =
 P Out = f (P In) Show where POut limitation starts

Units

Watts
 kW

Values

P In (DC)	Efficiency [%]
Thresh. 0.325	0.00
6.180	97.10
12.240	98.00
18.310	98.30
30.490	98.40
45.780	98.30
61.100	98.20
61.660	97.30



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Secondary parameters

Multi - MPPT

Multi MPPT capability

Number of MPPT inputs

Unbalanced MPPT

Transformer

Not specified

Transformerless

Transfo (not spec)

LF transfo

HF transfo

Inverter night consumption

Night consumption W

Auxiliaries consumption

Fans and auxiliaries kW

... from output power kW

"String" inverter

With securities on inputs

Number of string inputs

Master / Slave

No M/S capability

Master

Slave

Master / Slave

Internal M/S

Other specifications

Number of DC inputs

	Y	N	N/A
Isol. monitoring	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
DC switch	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
AC switch	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
AC disconnect adjust	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
ENS	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

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Power Factor

Allows power factor specification ?

Tan (phi) min i.e Cos(Phi)

Tan (phi) max i.e Cos(Phi)

Nominal AC power defined as

Apparent power [kVA]

Active power [kW]

Max AC Power f(Temperature)

Nom. ac Power **65.0 kVA** up to °C

Allows overpower

Max. ac Power **65.0 kVA** at °C

High temperature limitation

Power limit #1 kW/ac at °C

Power limit abs. kW/ac at °C

Temperature evaluation for limits

In the simulation, by default the inverter temperature is the external ambient temperature (outdoor installation).

This strategy can be modified in the project area, "Miscellaneous Tools" (Inverter Temperature tab)

The graph plots Power [kVA] on the y-axis (0 to 80) against Temperature [°C] on the x-axis (20 to 80). A green horizontal line at 65.0 kVA is labeled 'PNom = 65.0 kVA' and extends to 45°C. From 45°C to 60°C, the power decreases linearly to 33.0 kVA. At 60°C, there is a sharp drop to 0.0 kVA at 61°C.

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Technology specificities

Sizes

Width	<input type="text" value="719"/>	mm
Depth	<input type="text" value="295"/>	mm
Height	<input type="text" value="1163"/>	mm
Weight	<input type="text" value="75.0"/>	kg

Operating conditions - Behaviours at limits

Obsolete options for very old inverters or Special behaviour analysis

<p>Behaviour at P_{nom}</p> <p><input checked="" type="radio"/> Limitation</p> <p><input type="radio"/> Cut </p> <p><input type="radio"/> Cut to evening</p>	<p>Behaviour at V_{min}/V_{max}</p> <p><input checked="" type="radio"/> Limitation </p> <p><input type="radio"/> Cut</p>	<p>Operating mode</p> <p><input checked="" type="radio"/> MPPT</p> <p><input type="radio"/> Fixed voltage</p>
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Description **Yaskawa Solectria Solar, SLX 65-1000 Preliminary 9-7-17**

Manufacturer

Seller

Remarks

Available on the market from ... up to

Indicative price

Unit price	<input type="text" value="0.00"/>	US\$	0.00 US\$ / kW
By <input type="text" value="100"/> pieces :	<input type="text" value="0.00"/>	US\$	0.00 US\$ / kW
Date	<input type="text" value="8/15/2017"/>		

Currency