

# Certificate of Conformity

No. ESY 114387 0117 Rev. 01


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**Product:** **Converter  
(Hybrid inverter)**

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**Test report no.:** 64290233020902

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( Billy Qiu )

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**Model(s):**                      **SUN2000-8K-LC0, SUN2000-10K-LC0**  
    **SUN2000-3K-LB0, SUN2000-3.68K-LB0,**  
    **SUN2000-4K-LB0, SUN2000-4.6K-LB0,**  
    **SUN2000-5K-LB0, SUN2000-6K-LB0,**  
    **SUN5000-3K-LB0, SUN5000-6K-LB0**

## Parameters:

Model	SUN2000-8K-LC0	SUN2000-10K-LC0
<b>PV terminal parameters</b>		
Maximum PV voltage [V <sub>DC</sub> ]	600	
Rated voltage [V <sub>DC</sub> ]	360	
MPPT voltage range [V <sub>DC</sub> ]	40-560	
MPPT voltage range (full load) [V <sub>DC</sub> ]	260-510	285-510
Maximum input current [A <sub>DC</sub> ]	16/16/16	
Isc PV [A <sub>DC</sub> ]	20/20/20	
MPPT tracker number	3	
Maximum input power [W]	12000	15000
<b>Battery input/output parameters</b>		
Battery type	Lithium-ion (LiFePO <sub>4</sub> )	
Maximum voltage [V <sub>DC</sub> ]	600	
Battery rated voltage [V <sub>DC</sub> ]	360	
Battery voltage range [V <sub>DC</sub> ]	350-600	
Maximum charge power [W]	8000	10000
Maximum discharge power [W]	8000	10000
Maximum charge current [A <sub>DC</sub> ]	25	
Maximum discharge current [A <sub>DC</sub> ]	25	
Maximum charge power from grid to battery [W]	5000	
<b>Grid terminal input parameters</b>		
Rated input voltage [V <sub>AC</sub> ]	1P+N+PE, 230	
Rated input frequency [Hz]	50	
Maximum continuous input current [A <sub>AC</sub> ]	21.74	
Maximum continuous input active power [W]	5000	
Maximum continuous input apparent power [VA]	5000	
Power factor range	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)	
<b>Grid terminal output parameters</b>		
Rated output voltage [V <sub>AC</sub> ]	1P+N+PE, 230	
Rated output frequency [Hz]	50	
Rated output current [A <sub>AC</sub> ]	34.8	43.5
Maximum continuous output current [A <sub>AC</sub> ]	40.0	45.5
Rated output active power [W]	8000	10000
Maximum output active power [W]	8800	10000
Maximum output apparent power [VA]	8800	10000
Power factor range	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)	

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Model	SUN2000-3K-LB0	SUN2000-3.68K-LB0	SUN2000-4K-LB0
<b>PV terminal parameters</b>			
Maximum PV voltage [V <sub>DC</sub> ]	600		
Rated voltage [V <sub>DC</sub> ]	360		
MPPT voltage range [V <sub>DC</sub> ]	40-560		
MPPT voltage range (full load) [V <sub>DC</sub> ]	120-480	140-480	155-480
Maximum input current [A <sub>DC</sub> ]	16/16		
Isc PV [A <sub>DC</sub> ]	20/20		
MPPT tracker number	2		
Maximum input power [W]	4500	5520	6000
<b>Battery input/output parameters</b>			
Battery type	Lithium-ion (LiFePO <sub>4</sub> )		
Maximum voltage [V <sub>DC</sub> ]	600		
Battery rated voltage [V <sub>DC</sub> ]	360		
Battery voltage range [V <sub>DC</sub> ]	350-600		
Maximum charge power [W]	6000		
Maximum discharge power [W]	3300	3680	4400
Maximum charge current [A <sub>DC</sub> ]	16.5		
Maximum discharge current [A <sub>DC</sub> ]	16.5		
Maximum charge power from grid to battery [W]	3300	3680	4400
<b>Grid terminal input parameters</b>			
Rated input voltage [V <sub>AC</sub> ]	1P+N+PE, 230		
Rated input frequency [Hz]	50		
Maximum continuous input current [A <sub>AC</sub> ]	14.35	16.00	19.13
Maximum continuous input active power [W]	3300	3680	4400
Maximum continuous input apparent power [VA]	3300	3680	4400
Power factor range	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)		
<b>Grid terminal output parameters</b>			
Rated output voltage [V <sub>AC</sub> ]	1P+N+PE, 230		
Rated output frequency [Hz]	50		
Rated output current [A <sub>AC</sub> ]	13.0	16.0	17.4
Maximum continuous output current [A <sub>AC</sub> ]	15.0	16.0	20.0
Rated output active power [W]	3000	3680	4000
Maximum output active power [W]	3300	3680	4400
Maximum output apparent power [VA]	3300	3680	4400
Power factor range	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)		

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Model	SUN2000-4.6K-LB0	SUN2000-5K-LB0	SUN2000-6K-LB0
<b>PV terminal parameters</b>			
Maximum PV voltage [V <sub>DC</sub> ]	600		
Rated voltage [V <sub>DC</sub> ]	360		
MPPT voltage range [V <sub>DC</sub> ]	40-560		
MPPT voltage range (full load) [V <sub>DC</sub> ]	180-530	190-530	230-530
Maximum input current [A <sub>DC</sub> ]	16/16		
Isc PV [A <sub>DC</sub> ]	20/20		
MPPT tracker number	2		
Maximum input power [W]	6900	7500	9000
<b>Battery input/output parameters</b>			
Battery type	Lithium-ion (LiFePO <sub>4</sub> )		
Maximum voltage [V <sub>DC</sub> ]	600		
Battery rated voltage [V <sub>DC</sub> ]	360		
Battery voltage range [V <sub>DC</sub> ]	350-600		
Maximum charge power [W]	6000		
Maximum discharge power [W]	5000	5500	6000
Maximum charge current [A <sub>DC</sub> ]	16.5		
Maximum discharge current [A <sub>DC</sub> ]	16.5		
Maximum charge power from grid to battery [W]	5000		
<b>Grid terminal input parameters</b>			
Rated input voltage [V <sub>AC</sub> ]	1P+N+PE, 230		
Rated input frequency [Hz]	50		
Maximum continuous input current [A <sub>AC</sub> ]	21.74		
Maximum continuous input active power [W]	5000		
Maximum continuous input apparent power [VA]	5000		
Power factor range	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)		
<b>Grid terminal output parameters</b>			
Rated output voltage [V <sub>AC</sub> ]	1P+N+PE, 230		
Rated output frequency [Hz]	50		
Rated output current [A <sub>AC</sub> ]	20.0	21.7	26.1
Maximum continuous output current [A <sub>AC</sub> ]	23.0	25.0	30.0
Rated output active power [W]	4600	5000	6000
Maximum output active power [W]	5000	5500	6600
Maximum output apparent power [VA]	5000	5500	6600
Power factor range	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)		

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Model	SUN5000-3K-LB0	SUN5000-6K-LB0
<b>PV terminal parameters</b>		
Maximum PV voltage [V <sub>DC</sub> ]	600	
Rated voltage [V <sub>DC</sub> ]	360	
MPPT voltage range [V <sub>DC</sub> ]	40-560	
MPPT voltage range (full load) [V <sub>DC</sub> ]	120-480	230-530
Maximum input current [A <sub>DC</sub> ]	16/16	
Isc PV [A <sub>DC</sub> ]	20/20	
MPPT tracker number	2	
Maximum input power [W]	4500	9000
<b>Battery input/output parameters</b>		
Battery type	Lithium-ion (LiFePO <sub>4</sub> )	
Maximum voltage [V <sub>DC</sub> ]	600	
Battery rated voltage [V <sub>DC</sub> ]	360	
Battery voltage range [V <sub>DC</sub> ]	350-600	
Maximum charge power [W]	6000	
Maximum discharge power [W]	3300	6000
Maximum charge current [A <sub>DC</sub> ]	16.5	
Maximum discharge current [A <sub>DC</sub> ]	16.5	
Maximum charge power from grid to battery [W]	3300	5000
<b>Grid terminal input parameters</b>		
Rated input voltage [V <sub>AC</sub> ]	1P+N+PE, 230	
Rated input frequency [Hz]	50	
Maximum continuous input current [A <sub>AC</sub> ]	14.35	21.74
Maximum continuous input active power [W]	3300	5000
Maximum continuous input apparent power [VA]	3300	5000
Power factor range	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)	
<b>Grid terminal output parameters</b>		
Rated output voltage [V <sub>AC</sub> ]	1P+N+PE, 230	
Rated output frequency [Hz]	50	
Rated output current [A <sub>AC</sub> ]	13.0	26.1
Maximum continuous output current [A <sub>AC</sub> ]	15.0	30.0
Rated output active power [W]	3000	6000
Maximum output active power [W]	3300	6600
Maximum output apparent power [VA]	3300	6600
Power factor range	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)	

Remark: The maximum continuous output current is the maximum current that can be withstood under low voltage(0.95Un) conditions.

**Applicable standards:**

UNE 217002:2020