



Product Service

ATTESTATION OF CONFORMITY

Client: Huawei Technologies Co., Ltd
Administration Building Headquarters
of Huawei Technologies Co., Ltd.,
Bantian, Longgang District, 518129
Shenzhen, PEOPLE'S REPUBLIC OF
CHINA

Manufacturing place: 1) Huawei Machine Co., Ltd.
No. 2 City Avenue, Songshan Lake Sci.
& Tech. Industry Park, 523808
Dongguan, Guangdong, PEOPLE'S
REPUBLIC OF CHINA
2) Shenzhen Fugui Precision Industry
Co., LTD
Floor 1~4, Building 1, F8d District,
Foxconn Science and Technology
Industrial Park, East side of Min Qing
Road, Longhua Subdistrict, Longhua
District, 518109, Shenzhen,
Guangdong, PEOPLE'S REPUBLIC
OF CHINA

Test subject: SOLAR INVERTER
Type: SUN2000-50KTL-M0,
SUN2000-60KTL-M0, SUN2000-
65KTL-M0, SUN2000-70KTL-INM0

Test specification: IEC 61683:1999
IEC 60068-2-1:2007
IEC 60068-2-2:2007
IEC 60068-2-6:2007
IEC 60068-2-14:2009
IEC 60068-2-27:2008
IEC 60068-2-30:2005
IEC 60068-2-64:2008
IEC 60068-2-78:2012

Purpose of examination: Test according to the test specification

Test result: The test results show that the
presented product is tested according
to procedure of specified standard
above(see attachment for detail
efficiency measurement result)

Test report No. 70.409.18.051.20-00

Date, 2018-04-12


(Zhengdong Ma)

This Verification may only be quoted in full. Any use for advertising purposes must be granted in writing. This Verification is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. This Verification is part of the full test report(s) and should be read in conjunction with it.

Number-ID : TSPF0952.11E/ Revision 0 / Effective: 2011-04-01 – to be printed on attestation paper C/03/06



Product Service

Attachment

Measuring of efficiency	
Extract from test report:	No. 70.409.18.051.20-00

SUN2000-50KTL-M0@3/N/PE~, 230/400V							
Input voltage [VDC]		Power in [%] (rated output power: 50 kW)					
		10%	25%	50%	75%	100%	110%*
		η_R in [%]					
Minimum rated input voltage(MPP)	520	97,27	97,98	98,16	98,08	97,92	97,90
Nominal voltage(MPP)	600	97,99	98,58	98,72	98,66	98,57	98,52
Maximum rated input voltage(MPP)	800	97,73	98,35	98,45	98,33	98,19	98,12
		η_E in [%]					
Minimum rated input voltage(MPP)	520	97,28	97,98	98,16	98,08	97,93	97,90
Nominal voltage(MPP)	600	97,99	98,58	98,72	98,66	98,57	98,52
Maximum rated input voltage(MPP)	800	97,73	98,36	98,45	98,33	98,20	98,12

*: The max. output apparent power is limited to 55 kVA.
 Max. efficiency η_R and η_E is 98,72% at nominal voltage 600VDC with 50% rated output power.

SUN2000-60KTL-M0@3/N/PE~, 230/400V								
Input voltage [VDC]		Power in [%] (rated output power: 60 kW)						
		10%	25%	30%	50%	75%	100%	110%*
		η_R in [%]						
Minimum rated input voltage(MPP)	520	97,25	97,94	-	98,08	97,95	97,78	97,72
Nominal voltage(MPP)	600	98,20	98,67	98,71	98,69	98,59	98,46	98,41
Maximum rated input voltage(MPP)	800	97,75	98,41	-	98,47	98,28	98,12	98,05
		η_E in [%]						
Minimum rated input voltage(MPP)	520	97,26	97,94	-	98,08	97,95	97,78	97,72

Handwritten signature



Product Service

Attachment

Nominal voltage(MPP)	600	98,20	98,67	98,71	98,69	98,59	98,46	98,41
Maximum rated input voltage(MPP)	800	97,75	98,41	-	98,47	98,28	98,12	98,05

*: The max. output apparent power is limited to 66 kVA.

Max. efficiency η_R and η_E is 98,71% at nominal voltage 600VDC with 30% of rated output power, although it is not required to be tested at this power point.

SUN2000-60KTL-M0@3~, 480V									
Input voltage [VDC]		Power in [%] (rated output power: 60 kW)							
		10%	25%	50%	75%	100%	110%*		
		η_R in [%]							
Minimum rated input voltage(MPP)	600	96,99	97,80	98,16	98,16	98,10	98,07		
Nominal voltage(MPP)	720	98,17	98,79	98,91	98,90	98,77	98,78		
Maximum rated input voltage(MPP)	850	97,76	98,54	98,66	98,60	98,49	98,45		
		η_E in [%]							
		Minimum rated input voltage(MPP)	600	96,99	97,80	98,16	98,17	98,10	98,07
		Nominal voltage(MPP)	720	98,17	98,79	98,91	98,90	98,77	98,78
Maximum rated input voltage(MPP)	850	97,75	98,54	98,66	98,60	98,49	98,45		

*: The max. output apparent power is limited to 66 kVA.

Max. efficiency η_R and η_E is 98,91% at nominal voltage 720VDC with 50% rated output power.

SUN2000-65KTL-M0@3~, 480V								
Input voltage [VDC]		Power in [%] (rated output power: 65 kW)						
		10%	25%	46%	50%	75%	100%	110%*
		η_R in [%]						
Minimum rated input voltage(MPP)	600	97,13	97,88	-	98,18	98,16	98,04	97,97
Nominal voltage(MPP)	720	98,42	98,86	98,91	98,89	98,81	98,76	98,54
Maximum rated input voltage(MPP)	850	97,90	98,59	-	98,66	98,57	98,45	98,38
		η_E in [%]						

Handwritten signature



Attachment

Minimum rated input voltage(MPP)	600	97,13	97,88	-	98,18	98,16	98,04	97,97
Nominal voltage(MPP)	720	98,42	98,86	98,91	98,89	98,81	98,76	98,54
Maximum rated input voltage(MPP)	850	97,90	98,59	-	98,66	98,57	98,45	98,39

*: The max. output apparent power is limited to 72 kVA.
 Max. efficiency η_R and η_E is 98,91% at nominal voltage 720VDC with 46% of rated output power, although it is not required to be tested at this power point.

SUN2000-70KTL-INM0@3~, 500V								
Input voltage [VDC]		Power in [%] (rated output power: 65 kW)						
		10%	25%	37,5%	50%	75%	100%	110%*
		η_R in [%]						
Minimum rated input voltage(MPP)	625	97,21	97,97	-	98,25	98,24	98,12	98,05
Nominal voltage(MPP)	750	98,24	98,81	99,00	98,90	98,86	98,80	98,76
Maximum rated input voltage(MPP)	850	97,89	98,64	-	98,71	98,64	98,53	98,48
		η_E in [%]						
Minimum rated input voltage(MPP)	625	97,21	97,97	-	98,25	98,24	98,12	98,05
Nominal voltage(MPP)	750	98,24	98,81	99,00	98,90	98,86	98,80	98,76
Maximum rated input voltage(MPP)	850	97,88	98,64	-	98,71	98,64	98,53	98,48

*: The max. output apparent power is limited to 72 kVA.
 Max. efficiency η_R and η_E is 99,00% at nominal voltage 750VDC with 37,5% of rated output power, although it is not required to be tested at this power point.