

CERTIFICATES

Please check whether the available certificates meet the requirements of your target country. We are not able to take any responsibility for additional required certificates.

STRING INVERTER



SG10KTL-EC

- EN 62109-1: 2010
- EN 62109-2: 2011
- VDE-AR-N 4105: 2011
- VDE 0126-1-1: 2006.2
- DIN V VDE V 0124-100
- DIN V VDE V 0126-1-1
- EN 62109-1: 2010
- EN 62109-2: 2011
- EN 61000-6-3/A1: 2011
- EN 61000-6-2: 2005
- G59/3: 2013
- CEI 0-21



SG10KTL-M/SG12KTL-M

- Low Voltage Directive (LVD) 2014/35/EU
- Electromagnetic Compatibility (EMC) Directive 2014/30/EU.
- EN 62109-1: 2010
- EN 62109-2 :2011
- EN 61000-6-3/A1: 2011
- EN 61000-6-2: 2005
- UTE C 15-712-1:2013-07
- UTE C 15-712-1:2010-07
- VDE V 0126-1-1:2006-02
- VDE V 0126-1-1/A1:2012-02
- VDE V 0126-1-1:2013-08
- ERDF-NOI-RES_13E:2016-07
- VDE-AR-N 4105:2011-08
- VDE V 1024-100:2012-07
- IEC 61727:2004
- IEC 62116:2008
- IEC 62116:2014
- EN/IEC 61000-3-12:2011
- EN/IEC 61000-3-11:2000
- IEC 60068-2-1:2007
- IEC 60068-2-2:2007
- IEC 60068-2-14:2009
- IEC 60068-2-27:2008
- IEC 60068-2-30:2005
- IEC 60068-2-64:2008
- EN 50530:2010
- IEC 61683:1999
- G59/3
- CEI 0-16 **JUNE 2018**
- CEI 0-21 **JUNE 2018**



SG20KTL

- EN 62109-1: 2010
- EN 62109-2 :2011
- VDE V 0126-1-1:2006
- EN 62109-1: 2010
- EN 61000-6-2: 2005
- EN 61000-6-3/A1: 2011
- IEC 61727: 2004
- IEC 62116: 2008
- CEI 0-21: 2012-06
- BDEW Update **JUNE 2018**
- VDE-AR-N 4105: 2011-08
- VDE V 0124-100: 2012
- G59/3



SG30KTL-M

- Low Voltage Directive (LVD) 2014/35/EU
- Electromagnetic Compatibility (EMC) Directive 2014/30/EU.
- EN 62109-1: 2010
- EN 62109-2 :2011
- EN 61000-6-3/A1: 2011
- EN 61000-6-2: 2005
- VDE-AR-N 4105:2011
- VDE V 1024-100:2012
- VDE V 0126-1-1:2013
- IEC 61727 **JUNE 2018**
- IEC 62116 **JUNE 2018**

CERTIFICATES



SG36KTL-M

- Low Voltage Directive (LVD) 2014/35/EU
- Electromagnetic Compatibility (EMC) Directive 2014/30/EU.
- EN 62109-1: 2010
- EN 62109-2 :2011
- EN 61000-6-3/A1: 2011
- EN 61000-6-2: 2005
- Chile SEC
- UTE C 15-712-1:2013
- ERDF-NOI-RES_13E:2013
- VDE V 0126-1-1/A1:2012(national deviation FR)
- VDE V 0126-1-1/A1 VFR 2014
- BDEW:2008-06
- FGW TR8:2016-03
- VDE-AR-N 4105:2011
- VDE V 1024-100:2012
- VDE V 0126-1-1:2013
- EN 50438(HU, NL, PT, TR)
- EN/IEC 61000-3-12:2011
- EN/IEC 61000-3-11:2000
- IEC 60068-2-1:2007
- IEC 60068-2-2:2007
- IEC 60068-2-14:2009
- IEC 60068-2-27:2008
- IEC 60068-2-30:2005
- IEC 61683(ed. 1)
- IEC 61727(ed. 2)
- IEC 62116(ed. 2)
- EN 50530:2010/A1:2013 **JUNE 2018**
- CEI 0-16
- CEI 0-21
- NRS 097-2-1:2017
- Real Decreto 1699
- DEWA DRRG
- G59/3
- SYNERGRID C10/11



SG50KTL-M-20

- Low Voltage Directive (LVD) 2014/35/EU
- Electromagnetic Compatibility (EMC) Directive 2014/30/EU.
- EN 62109-1: 2010
- EN 62109-2 :2011
- EN 61000-6-3/A1: 2011
- EN 61000-6-2: 2005
- UTE C15-712-1
- VDE 0126-1-1/A1
- BDEW:2008-06
- FGW TR8:2016-03
- VDE-AR-N 4105:2011
- VDE V 1024-100:2012
- VDE V 0126-1-1:2013
- IEC 60068-2-1:2007
- IEC 60068-2-2:2007
- IEC 60068-2-14:2009
- IEC 60068-2-27:2008
- IEC 60068-2-30:2005
- IEC 60068-2-64:2008
- IEC 61683(ed. 1)
- IEC 61727(ed. 2)
- IEC 62116(ed. 2)
- EN 50530:2010/A1:2013
- G59/3
- CEI 0-16 **JULY 2018**
- CEI 0-21 **JULY 2018**
- EN50438(TR) **JULY 2018**
- EN/IEC 61000-3-12:2011 **JULY 2018**
- EN/IEC 61000-3-11:2000 **JULY 2018**

CERTIFICATES



SG60KTL

- Low Voltage Directive (LVD) 2014/35/EU
- Electromagnetic Compatibility (EMC) Directive 2014/30/EU.
- EN 62109-1: 2010
- EN 62109-2 :2011
- EN 61000-6-3/A1: 2011
- EN 61000-6-2: 2005
- Chile SEC
- UTE C 15-712-1:2013
- VDE V 0126-1-1/A1 VFR 2014
- BDEW:2008-06
- FGW TR8:2016-03
- VDE-AR-N 4105:2011
- VDE V 1024-100:2012
- VDE V 0126-1-1:2013
- EN 50438(HU, NL, PT, TR)
- EN/IEC 61000-3-12:2011
- EN/IEC 61000-3-11:2000
- IEC 60068-2-1:2007
- IEC 60068-2-2:2007
- IEC 60068-2-14:2009
- IEC 60068-2-27:2008
- IEC 60068-2-30:2005
- IEC 60068-2-64:2008
- IEC 61683(ed. 1)
- IEC 61727(ed. 2)
- IEC 62116(ed. 2)
- EN 50530:2010/A1:2013
- AS/NZS 4777.2/3:2005(Israel Deviation)
- CEI 0-16
- NRS 097-2-1:2017
- Real Decreto 1699:2011
- Real Decreto 661:2007
- DEWA DRRG
- G59/3
- SYNERGRID C10/11



SG80KTL

- Low Voltage Directive (LVD) 2014/35/EU
- Electromagnetic Compatibility (EMC) Directive 2014/30/EU.
- EN 62109-1: 2010
- EN 62109-2 :2011
- EN 61000-6-3/A1: 2011
- EN 61000-6-2: 2005
- UTE C 15-712-1:2013
- BDEW **SEP 2018, Prototype Cert. Available**
- IEC 61727:2004
- IEC 62116:2014
- NRS 097-2-1:2017
- Real Decreto 1699:2011 **JUNE 2018**
- Real Decreto 661:2007 **JUNE 2018**
- PO 12.3 **JUNE 2018**
- UNE 206007-1 **JUNE 2018**
- EN 50438(TR)



SG125HV (1500 VDC)

- Low Voltage Directive (LVD) 2014/35/EU
- Electromagnetic Compatibility (EMC) Directive 2014/30/EU.
- EN 62109-1: 2010
- EN 62109-2 :2011
- EN 61000-6-3/A1: 2011
- EN 61000-6-2: 2005
- EN 55011
- UTE C 15-712-1:2013
- EN/IEC 61000-3-12:2011
- EN/IEC 61000-3-11:2000
- IEC 61727:2004
- IEC 62116:2014
- UL 1741
- IEEE 1547
- BDEW **AUG 2018**
- CEI 0-16 **JULY 2018**
- PO 12.3 **JUNE 2018**
- UNE 206007-1 **JUNE 2018**

CERTIFICATES

CENTRAL INVERTER 1000 VDC



SG500MX / SG630MX

- Low Voltage Directive (LVD) 2014/35/EU
- Electromagnetic Compatibility (EMC) Directive 2014/30/EU.
- EN 62109-1: 2010
- EN 62109-2 :2011
- EN 61000-6-4
- EN 61000-6-2
- IEC 61727:2004
- IEC 62116:2014
- IEC 60068-2-1:2007
- IEC 60068-2-2:2007
- IEC 60068-2-14:2009
- IEC 60068-2-30:2005
- IEC 61683:1999
- CEI 0-16
- PEA



SG2000/SG2500

- Low Voltage Directive (LVD) 2014/35/EU
- Electromagnetic Compatibility (EMC) Directive 2014/30/EU.
- EN 62109-1: 2010
- EN 62109-2 :2011
- EN 61000-6-4
- EN 61000-6-2
- G59/3-2
- IEC 61727:2004
- IEC 62116:2014
- IEC 60068-2-1:2007
- IEC 60068-2-2:2007
- IEC 60068-2-14:2009
- IEC 60068-2-30:2005
- IEC 61683:1999
- IEC 60068-2:1994
- NTCO MT:2016
- NTSyCS:2016

CERTIFICATES

CENTRAL INVERTER 1500 VDC



SG2500HV/SG3000HV

- Low Voltage Directive (LVD) 2014/35/EU
- Electromagnetic Compatibility (EMC) Directive 2014/30/EU.
- EN 62109-1: 2010
- EN 62109-2 :2011
- EN 61000-6-4
- EN 61000-6-2
- IEC 61727:2004
- IEC 62116:2014
- IEC 60068-2-1:2007
- IEC 60068-2-2:2007
- IEC 60068-2-14:2009
- IEC 60068-2-30:2005
- IEC 61683:1999
- IEC 60068-2:1994
- PO 12.3 **TBD**
- UNE 206007-1 **TBD**



SG2500HV-20

- Low Voltage Directive (LVD) 2014/35/EU
- Electromagnetic Compatibility (EMC) Directive 2014/30/EU.
- EN 62109-1: 2010
- EN 62109-2 :2011
- EN 61000-6-4
- EN 61000-6-2
- IEC 61727:2004
- IEC 62116:2014
- IEC 60068-2-1:2007
- IEC 60068-2-2:2007
- IEC 60068-2-14:2009
- IEC 60068-2-30:2005
- IEC 61683:1999
- IEC 60068-2:1994
- EN 50530
- IEEE 519



SG3125HV

- Low Voltage Directive (LVD) 2014/35/EU
- Electromagnetic Compatibility (EMC) Directive 2014/30/EU.
- EN 62109-1: 2010
- EN 62109-2 :2011
- EN 61000-6-4
- EN 61000-6-2
- IEC 61727:2004
- IEC 62116:2014
- IEC 60068-2-1:2007
- IEC 60068-2-2:2007
- IEC 60068-2-14:2009
- IEC 60068-2-30:2005
- PO 12.3 **TBD**
- UNE 206007-1 **TBD**

June 2018

Sungrow Power Supply Co., Ltd. - Overview Inverter Certifications

12.07.2018

General Description Country	Standard Description Low / Medium / High Voltage	Standard Code	Europe			Middle East			Africa			Asia/Pacific			America		
			SGS2015	SGS2016	SGS2017	SGS2018	SGS2019	SGS2020	SGS2021	SGS2022	SGS2023	SGS2024	SGS2025	SGS2026	SGS2027	SGS2028	SGS2029
General Standards																	
Interference immunity	Immunity for residential, commercial and light-industrial environments	EN 61000-6-1:2007 (IEC 61000-6-1:2005)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Interference immunity	Immunity for industrial environments	EN 61000-6-2: 2005 (IEC 61000-6-2:2005)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Emitted interference	Emission standard for residential, commercial and light-industrial env.	EN 61000-6-3:2007 + A1:2011 (IEC 61000-6-3:2006 + A1:2010)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Emitted interference	Emission standard for industrial environments	EN 61000-6-4:2007 + A1:2011 (IEC 61000-6-4:2006 + A1:2010)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Secondary effects to the Grid	Limits for flicker and harmonic currents with input current > 16 A and I_n 75 A per phase	EN 61000-3-12:2011 (IEC 61000-3-12:2011) EN 61000-3-11:2000 (IEC 61000-3-11:2000)	--	--	--	--	→	--	→	--	→	--	→	--	→	--	
Safety Power Systems		IEC 62040-1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Safety General requirements		IEC 62109-1:2010 TCR 04/2013-09	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Safety Particular requirements for inverters		IEC 62109-2:2011 G477-1:2012/A1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Electromagnetic Compatibility		2014/30/EU	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Low Voltage Directive (LVD)		2014/35/EU	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Sand Test		IEC 60068-2-68	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Europe																	
Austria (AT)	LV & MV	VDE 0126-1-1 ÖVE/ÖNORM E 8001-4-712/A1:2014 TCR 04/2013-09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Belgium (BE)	LV & MV	C10711:06:2012	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Denmark (DK)	LV & MV	VDE-AR-N 4105: 2011-08 Positive List Listing	--	--	--	--	→	--	→	--	→	--	→	--	→	--	
France (FR)	LV & MV	LTE C 15-712-1 (> 250 kA) LTC C 15-712-1 (< 250 kA) VDE V 0126-1-1/A1 / VFR2013/2014	--	--	--	--	→	--	→	--	→	--	→	--	→	--	
Germany (GER)	LV	VDE-AR-N 4105	--	--	✓	✓	--	--	--	--	--	--	--	--	--	--	
	MV	BDEW	--	--	--	--	✓	--	✓	--	✓	--	✓	--	✓	--	
	HV	VDE-AR-N 4120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Great Britain (GB)	LV	GS3/3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	LV & MV	GS9/3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Greece (GR)	LV	VDE0126-1-1 (2006-02)	--	--	--	--	→	--	→	--	→	--	→	--	→	--	
	LV & MV	EN 50438:2013 / VDE-AR-N 4105:2011-8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Hungary (HU)		Characteristics of the utility interface utility-interconnected islanding prevention	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	LV	IEC 61727 (2004-12) IEC 62116:2008	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Italy (IT)	LV	CEI-021	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	MV	CEI-016 (≤ 400 kW) CEI-016 (> 400 kW)	--	--	--	--	→	--	→	--	→	--	→	--	→	--	
Netherlands (NL)	LV & MV	EN 50438:2013 VDE 0126-1-1: 2013-08	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Portugal (PT)	LV & MV	EN 50438 (2013) (with national deviations)	--	--	--	--	→	--	→	--	→	--	→	--	→	--	
	LV	RD 1699/2011	--	--	--	--	→	--	→	--	→	--	→	--	→	--	
Spain (ES)	MV	PD 12.3 UNE 206007-1	--	--	--	--	→	--	→	--	→	--	→	--	→	--	
Switzerland (CH)	LV & MV	VDE0126-1-1 (2006-2) VDE-AR-N 4105 TÜV SÜD Approval	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Turkey (TR)	LV & MV	VDE0126-1-1 (2006-02) EN 50438 (2007)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Middle East																	
Egypt (EG)	LV & MV	IEEE 519 LVRT FGW TR3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Israel (IL)	LV & MV	EN 50530 AS 4777-2:2005 AS 4777-3:2005	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Jordan (JO)	LV & MV	Grid Code GS9/3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Saudi Arabia (SA)	LV & MV	VDE0126-1-1 (2006-02)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
United Arab Emirates (AE)	LV & MV	DEWA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Africa																	
Algeria (DZ)		Customer	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Namibia	LV & MV	NRS-097-2-1:2010	--	--	--	--	→	--	→	--	→	--	→	--	→	--	
South Africa (ZA)		Characteristics of the utility interface utility-interconnected islanding prevention	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	LV & MV	IEC 62116:2008 VDE V 0126-1-1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Asia/Pacific																	
Australia (AU)	LV & MV	AS 4777-2:2005 AS 4777-3:2005	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		Characteristics of the utility interface utility-interconnected islanding prevention	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		Procedure for measuring efficiency environmental testing procedures	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
China (CN)		Customer	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
India (IN)		Characteristics of the utility interface utility-interconnected islanding prevention	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		MPPT Efficiency Environment: Temperature relative test Procedure for measuring efficiency	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Indonesia (ID)		Customer	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Japan (JP)	LV & MV	JET	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Malaysia (MY)		Customer	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
New Zealand (NZL)	LV & MV	AS/NZS 3100:2009 Inc A1-3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Vietnam(VN)		Customer	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Pakistan (PK)		Customer	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Philippines (PH)		Customer	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Thailand (TH)	LV & MV	MEA PEA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
America																	
Brazil (BR)		Customer	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Canada (CA)	LV & MV	CSA C22.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chile (CL)		NTCO- NTSyCS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Mexico (MX)		CENACE PSSE MODEL VALIDATION	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
United States (US)	LV & MV	CSA C22.2 / IEEE 1547.1 / UL 1741	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

Legend	
✓	Certificate available, Inverter fulfills the requirements of the standard
--	Certification is not available, for questions please contact Sungrow
→	Certification in process
●	No standard available; special settings to be adjusted by customer. Please contact Sungrow