

SMA country list - Inverter - core countries - December 2017



Core Countries			Safety & EMC	
Country	Standard			
Australia	AS 4777:2015	1	1	1
Australia	Applicable Grid Codes (WV and NER)	1	1	1
Australia	OVE/CNORM E 8001-4:712 & TOR D4 V. 2.3	1	1	1
Austria	- MV	1	1	1
Brasil	ABNT NBR 13449	1	1	1
Brasil	ANEEL & ONS Requirements	1	1	1
Belgium	C1011:2012 (LV Grid)	1	1	1
Belgium	C1011:2012 (MV Grid)	1	1	1
Chile	IEC 62109, IEC 62116, Ley 20.751 (510kW)	1	1	1
Chile	NTSCS 08.2013, NTCO 06.2013 (MV, HV, Grid)	1	1	1
Denmark	VDE-AR-N 4105 (TF3.2.1)	1	1	1
Denmark	TR32.2	1	1	1
Denmark	VDE-AR-N 4105	1	1	1
Germany	BDEW 2008 (EZA am MS-Netz)	1	1	1
Germany	Transmission Code / SCLW/indV	1	1	1
Germany	VDE-AR-N 4120 (HV Grid)	1	1	1
Greece	PEC	1	1	1
India	IEC 61727, IEC 60088-2, IEC 61883	1	1	1
Israel	SI 4777: HS, 131, 2013	1	1	1
Israel	SI approval based on IEC 62109	1	1	1
Israel	Transmission Grid Requirements (10kV)	1	1	1
Italy	CEI 0-21	1	1	1
Italy	CEI 0-16 (<400kW)	1	1	1
Italy	CEI 0-16 (>400kW)	1	1	1
Netherlands	NEN EN 50438:2014	1	1	1
Netherlands	Mecode Elektrotechniek 1996 / BDEW	1	1	1
Portugal	EN 50438:2013	1	1	1
Portugal	- MV	1	1	1
Spain	RD 661/2007 (>100 kW)	1	1	1
Spain	RD 1699/2011 - RD413 (≤100 kW)	1	1	1
Spain	P O.12.3 (≤ 2 MW)	1	1	1
South Africa	NRS997-2-1	1	1	1
South Africa	South African Grid Code (version 2.8)	1	1	1
Switzerland	VDE0126-1-1	1	1	1
Switzerland	- MV	1	1	1
Thailand (MEA)	MEA guideline 2013	1	1	1
Thailand (PEA)	PEA 2016 (<500kW)	1	1	1
Thailand (PEA)	PEA 2016 (>500kW)	1	1	1
United Kingdom	GB921 (≤16A)	1	1	1
United Kingdom	GB921 (16A-275A)	1	1	1
United Kingdom	GB921 (275A-575A)	1	1	1
United Kingdom	GB921 (575A-1100A)	1	1	1
United Kingdom	GB921 (1100A-2750A)	1	1	1
United Kingdom	GB921 (2750A-5750A)	1	1	1
United Kingdom	GB921 (5750A-11000A)	1	1	1
United Kingdom	GB921 (11000A-27500A)	1	1	1
United Kingdom	GB921 (27500A-57500A)	1	1	1
United Kingdom	GB921 (57500A-110000A)	1	1	1
United Kingdom	GB921 (110000A-275000A)	1	1	1
United Kingdom	GB921 (275000A-575000A)	1	1	1
United Kingdom	GB921 (575000A-1100000A)	1	1	1
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United Kingdom	GB921 (27500000A-57500000A)	1	1	1
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United Kingdom	GB921 (275000000A-575000000A)	1	1	1
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United Kingdom	GB921 (1100000000A-2750000000A)	1	1	1
United Kingdom	GB921 (2750000000A-5750000000A)	1	1	1
United Kingdom	GB921 (5750000000A-11000000000A)	1	1	1
United Kingdom	GB921 (11000000000A-27500000000A)	1	1	1
United Kingdom	GB921 (27500000000A-57500000000A)	1	1	1
United Kingdom	GB921 (57500000000A-110000000000A)	1	1	1
United Kingdom	GB921 (110000000000A-275000000000A)	1	1	1
United Kingdom	GB921 (275000000000A-575000000000A)	1	1	1
United Kingdom	GB921 (575000000000A-1100000000000A)	1	1	1
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United Kingdom	GB921 (1100A-275000000000000000000000000000000000000000A)	1	1	1
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United Kingdom	GB921 (5750000000000000000			

SMA country list - Inverter - EMEA-Europe - December 2017



		EMEA - Europe		Safety & EMC	
Country	Standard				
Albania	-				
Andorra	-				
Austria	ÖVE/ÖNORM E 8001-4:712 & TOR DA V. 2:3				
Austria	- MV				
Belarus	-				
Belgium	C1011:2012 (LV-Grid)				
Belgium	C1011:2012 (MV-Grid)				
Bosnia-Herzegovina	-				
Bulgaria	-				
Croatia	-				
Cyprus	-				
Czech Republic	PPDS				
Denmark	TR3.2.2				
Denmark	VDE-AR-N 4105 (TFS.2.1)				
Estonia	EN 50438:2007				
Finland	EN 50438:2007				
Finland	Energialainsäätöasetys 2007/1 (EN 50438:2)				
France (main)	VDE0136-1:1 A1 / VDE 2014				
France (main)	Arrêté du 23/04/08 (MV)				
Georgia	-				
Germany	VDE-AR-N 4105				
Germany	BPEW 2008 (EZA am MSA 44)				
Germany	Transmission Code / SCLW/V				
Germany	VDE-AR-N 4120 (HV Grid)				
Greece	PPC				
Greece	-				
Gibraltar	-				
Hungary	-				
Hungary	EN 61727 EN 62116 EN 62109-1				
Ireland	- MV				
Ireland	IS EN50438 (in CER06/10)				
Ireland	- MV				
Ireland	GS3P-1				
Northern Ireland	Distribution Code (Feb. 2015)				
Northern Ireland	CEI 0-21				
Italy	CEI 0-16 (<400kV)				
Italy	CEI 0-16 (>400kV)				
Italy	-				
Jersey	-				
Latvia	LV EN 50438				
Latvia	- MV				
Latvia	-				
Lithuania	LS EN 50438				
Lithuania	- MV				
Luxembourg	-				
Luxembourg	MSA EN 50438				
Macedonia	-				
Malta	-				
Moldova	- MV				
Monaco	-				
Monaco	-				
Netherlands	NEI EN 50438:2014				
Netherlands	Marktover EENEN 1996 / DEW				
Norway	-				
Poland	EN 50438:2007				
Poland	- MV				
Portugal	EN 50438:2013				
Portugal	- MV				
Romania	ANRE 30 (400kV)				
Romania	ANRE 30 (100kV - 110kV)				
Romania	ANRE 30 (10kV - 110kV)				
Romania	ANRE 30 (10kV - 110kV)				
Romania	ANRE 30 (10kV - 110kV)				
Russia	-				
San Marino	-				
Serbia	-				
Slovakia	-				
Slovenia	-				
Spain	RD 661/2007 (>100 kV)				
Spain	RD 1699/2011 - RD413 (500 kV)				
Spain	P.O.12.3 (22 kV)				
Sweden	SEK TR 8 (EN 50438:2013)				
Sweden	- MV				
Switzerland	VDE0128-1-1				
Switzerland	- MV				
Turkey	Regül Gazete Sayı/ 20229 AG koruma				
Turkey	Regül Gazete Sayı/ 20229 YG koruma				
Ukraine	-				
United Kingdom	GS32 (15kV)				
United Kingdom	GS92 (required from 1 Dec 2014) (11kV - 175kV)				
Vatican City State	-				

certificate (third party)
certificate (SMA)

Invertertype

SB1.5-1VL-40
SB2.5-1VL-40
SB2.5-1VL-40
SB3.0-1AV-40
SB3.6-1AV-40
SB4.0-1AV-40
SB5.0-1AV-40
SB 3000TL-21
SB 3600TL-21
SB 4000TL-21
SB 5000TL-21
SB 6000TL-21
SB 3600SE-10
SB 5000SE-10
STP 5000TL-20
STP 6000TL-20
STP 7000TL-20
STP 8000TL-20
STP 9000TL-20
STP 10000TL-20
STP 12000TL-20
STP 15000TL-10
STP 15000TL-30
STP 20000TL-30
STP 25000TL-30
STP 50-40
STP 60-10
SC 500CP-10
SC 630CP-10
SC 720CP-10
SC 760CP-10
SC 800CP-10
SC 850CP-10
SC 900CP-10
SC 1000CP-10
SC 2200
SC 2500-EV
SC 2750-EV

Color code

	Sales not permitted
	Restrictive sales (further clarification necessary)
	Unlimited sales (fully compliant with the required standard)
	Change to previous version

last modification: 18.12.2017

Juan Peña de Jua EMC & Global Certification - Technology Center and Services

SMA country list - Inverter - EMEA-Middle East & Africa - December 2017

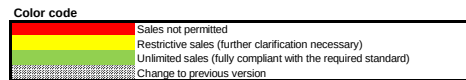


EMEA - Middle East & Africa		Safety & EMC	
Country	Standard		
Aland Islands	-	IEC/EN 62109-1	Safety (general requirements)
Algeria	-	IEC/EN 62109-2	Safety (particular requirements)
Angola	-	IEC/EN 61000-3-2	EMC / Harmonics (I ≤16A)
Argentina	-	IEC/EN 61000-3-2	EMC / Flicker (I ≤16A)
Bahrain	-	IEC/EN 61000-3-3	EMC / Harmonics (I ≤ 16A)
Belize	-	IEC/EN 61000-3-11	EMC / Flicker (I ≥ 16A)
Bhutan	-	IEC/EN 61000-6-1	EMC / Immunity / EMI
Bosnia and Herzegovina	-	IEC/EN 61000-6-2	EMC / Immunity / EMI
Burkina Faso	-	IEC/EN 61000-6-3	EMC / Immunity / EMI
Burundi	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Cameroon	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Cape Verde Islands	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Central African Republic	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Chad	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Colombia	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Congo Democratic Republic	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Congo Rep. of (Zaire)	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Cote D'Ivoire	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Djibouti Rep.	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Egypt Arab Rep. of	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Equatorial Guinea	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Eritrea	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Ethiopia	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Falkland (Malvinas) Is.	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Gabon Rep.	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Gambia	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Ghana	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Guinea	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Guinea-Bissau	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Haiti	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Iran	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Iraq	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Israel	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Israel	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Jordan	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Kenya	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Kuwait	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Lebanon	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Lesotho	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Liberia	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Lithuania	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Luxembourg	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Madagascar	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Madagascar Dem. Rep.	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Malawi	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Mali Rep. of	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Mauritania	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Mauritius Is.	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Mexico	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Moldova	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Morocco	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Mozambique	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Namibia	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Niger Rep.	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Nigeria	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Oman	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Pakistan	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Palestine	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Qatar	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Romania	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Rwanda	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Sahrawi Arab Dem. Rep.	-	IEC/EN 61000-6-4	EMC / Emission / EMI
San Marino & Principe	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Saudi Arabia	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Senegal	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Sierra Leone	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Somalia	-	IEC/EN 61000-6-4	EMC / Emission / EMI
South Africa	-	IEC/EN 61000-6-4	EMC / Emission / EMI
South Africa	-	IEC/EN 61000-6-4	EMC / Emission / EMI
South Georgia/Sandwich Is.	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Sudan	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Swaziland	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Switzerland	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Syria	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Tanzania	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Togo	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Tunisia	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Turkey	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Uganda	-	IEC/EN 61000-6-4	EMC / Emission / EMI
United Arab Emirates	-	IEC/EN 61000-6-4	EMC / Emission / EMI
United Arab Emirates	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Yemen	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Zaire	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Zambia	-	IEC/EN 61000-6-4	EMC / Emission / EMI
Zimbabwe	-	IEC/EN 61000-6-4	EMC / Emission / EMI

Inverter type	SB1.5-1VL-40	SB2.5-1VL-40	SB2.5-1VL-40	SB3.0-1AV-40	SB3.6-1AV-40	SB4.0-1AV-40	SB5.0-1AV-40	SB 3000TL-21	SB 3600TL-21	SB 4000TL-21	SB 5000TL-21	SB 6000TL-21	SB 3600SE-10	SB 5000SE-10	STP 5000TL-20	STP 6000TL-20	STP 7000TL-20	STP 8000TL-20	STP 9000TL-20	STP 10000TL-20	STP 12000TL-20	STP 15000TL-10	STP 15000TL-30	STP 20000TL-30	STP 25000TL-30	STP 50-40	STP 60-10	SC 500CP-10	SC 630CP-10	SC 720CP-10	SC 760CP-10	SC 800CP-10	SC 850CP-10	SC 900CP-10	SC 1000CP-10	SC 2200	SC 2500-EV	SC 2750-EV
Color code	Sales not permitted	Restrictive sales (further clarification necessary)	Unlimited sales (fully compliant with the required standard)	Change to previous version																																		

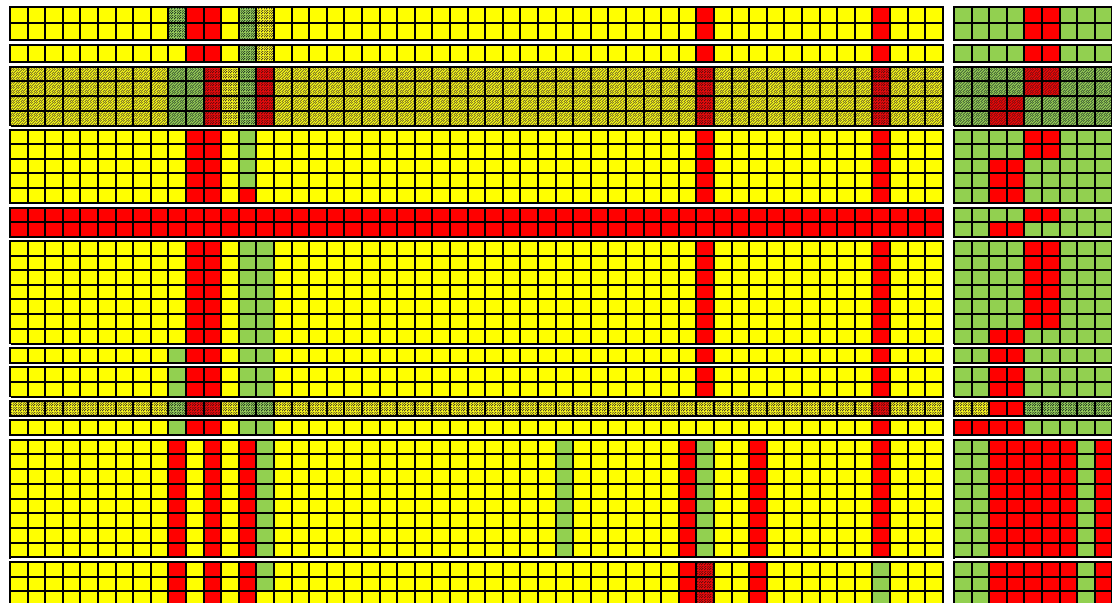
certificate (third party)
certificate (SM)

SB1 5-1VL-40
SB2 5-1VL-40
SB2S 5-1VL-40
SB3 0-1AV-40
SB3 1-1AV-40
SB4 0-1AV-40
SB5 0-1AV-40
SB 3000TL-21
SB 3600TL-21
SB 4000TL-21
SB 5000TL-21
SB 6000TL-21
SB 3000SE-10
SB 5000SE-10
STP 5000TL-20
STP 6000TL-20
STP 7000TL-20
STP 8000TL-20
STP 9000TL-20
STP 10000TL-20
STP 12000TL-20
STP 15000TL-10
STP 15000TL-30
STP 20000TL-30
STP 25000TL-30
STP 50-40
STP 60-10
SC 900CP-10
SC 930CP-10
SC 720CP-10
SC 900CP-10
SC 800CP-10
SC 850CP-10
SC 900CP-10
SC 1000CP-10
SC 2200
SC 2500-EV
SC 2750-EV



certificate (third party)
certificate (SMA)

SB1 5-V1L-40
SB2 5-V1L-40
SB2S 5-V1L-40
SB3 0.14V-40
SB3 0.14V-40
SB4 0.14V-40
SB5 0.14V-40
SB 3000T1-21
SB 3600T1-21
SB 4000T1-21
SB 6000T1-21
SB 6000T1-21
SB 3000SE-10
SB 5000SE-10
STP 5000T1-20
STP 6000T1-20
STP 7000T1-20
STP 8000T1-20
STP 9000T1-20
STP 10000T1-20
STP 12000T1-20
STP 15000T1-10
STP 20000T1-30
STP 50000T1-30
STP 50-40
STP 60-10
SC 590CP-10
SC 639CP-10
SC 729CP-10
SC 769CP-10
SC 800CP-10
SC 850CP-10
SC 900CP-10
SC 1000CP-10
SC 1200
SC 2500-EV
SC 2750-EV



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