


3TL Certificates Overview

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Country / Grid Code	Norm	Current Products			Legacy Products					
		AE 3TL 867 8...13	AE 3TL 867 17...23	AE 3TL 840 40...46	AE 1TL 801R 1K8... 4K2	REFUso1 802 8K...20K	REFUso1 803 8K...10K	REFUso1 806 23K	REFUso1 807 020K	REFUso1 808 13K... 20K
	1) CE Declaration 30.12.99									
	3) VDE V 0126-1-1 DE VDE 0126-1-1: Automatic disconnection device between a generator and the public low-voltage grid									
	4) VDE V 0126-1-1 EN VDE 0126-1-1: Automatic disconnection device between a generator and the public low-voltage grid									
	5) IEC 62109-1 /2 IEC 62109-1 / 2: Safety of power converters for use in photovoltaic power systems									
	6) IEC 62116 IEC 62116: Utility-interconnected photovoltaic inverters - Test procedure of islanding prevention measures									
	7) IEC 61727 IEC 61727: Photovoltaic (PV) systems - Characteristics of the utility interface									
	8) IEC 61683 IEC 61683: Photovoltaic systems – Power conditioners – Procedure for measuring efficiency									
	9) IEC 60364-7-712 IEC 60364-7-712 Fault current protection									
	10) EMC EN 61000 xxx									
	11) P/Q Characteristic P/Q Characteristic									
	Australia AS4777.2, AS4777.3, AS3100, SGS-Zertifikat									
	Austria ÖVE/ÖNORM E 8001-4-712									
	Belgium C10/C11, VDE V 0126-1-1 (nl) C10/C11, VDE V 0126-1-1 (fr)									
	Bosnia									
	Brazil									
	Bulgaria VDE V 0126-1-1									
	China CGC (CQC-certified)									
	Croatia IEC 62109-1, IEC61727, IEC62116									
	Cyprus EN50438									
	Czech Republic VDE V 0126-1-1									
	Denmark VDE-AR-N 4105									
	Estonia VDE V 0126-1-1									
	France UTE C15-712-1 (Islands 50Hz) UTE C15-712-1 (Islands 60Hz) VDE V 0126-1-1, UTE C15-712-1 Max. Frequency (fr) Max. Frequency (en)									
	Germany VDE V 0126-1-1 BDEW Mittelspannung AR-N 4105, G.2 / F.3 EZE AR-N 4105, G.3 / F.4 NA-Schutz									
	Great Britain G59/2 230V*) G59/2 240V*) G59/3 230V G59/3 240V G83/1 **) G83/2 230V**) G83/2 240V									

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Current Products



Legacy Products



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		AE 3TL 867 8...13	AE 3TL 867 17...23	AE 3TL 840 40...46	AE 1TL 801R 1K8...4K2	REFUsol 802 8K...20K	REFUsol 803 8K...10K	REFUsol 806 23K	REFUsol 807 020K	REFUsol 808 13K...20K
	Greece									
	VDE V 0126-1-1 (Continent)	📄	📄	📄	📄	📄	📄	📄	📄	📄
	VDE V 0126-1-1 (Islands)	📄	📄	📄	📄	📄	📄	📄	📄	📄
	Hungary	📄	📄	📄	📄	📄	📄	○	○	📄
	India	📄	📄	📄	○	📄	📄	📄	📄	📄
	Israel	○	📄	○	○	📄	📄	○	○	📄
	Italy	○	○	○	○	○	○	○	○	○
	Option	○	○	○	○	○	○	○	○	○
	DK5940	○	○	○	○	○	○	○	○	○
	CEI 0-21	📄	📄	○	📄	📄	📄	○	📄	📄
	CEI 0-21 (Islands)	📄	📄	○	📄	📄	📄	○	📄	📄
	CEI 0-16	📄	📄	📄	○	○	○	○	○	○
	CEI 0-16 (Islands)	📄	📄	📄	○	○	○	○	○	○
	Jordan	○	📄	📄	○	○	○	○	○	○
	Latvia	📄	📄	📄	📄	📄	📄	📄	📄	📄
	Lithuania	📄	📄	📄	📄	📄	📄	📄	📄	📄
	Luxembourg	📄	📄	📄	📄	📄	📄	📄	📄	📄
	Malaysia	📄	📄	📄	○	○	○	○	○	○
	Malta	○	📄	📄	○	○	○	○	○	○
	Netherlands	📄	📄	📄	📄	📄	📄	📄	📄	📄
	Philippines	○	○	○	○	○	○	○	○	○
	Poland	📄	📄	📄	📄	📄	📄	📄	📄	📄
	Portugal	📄	📄	📄	📄	📄	📄	📄	○	📄
	Romania	📄	📄	📄	📄	📄	📄	📄	📄	📄
	Saudi Arabia	📄	📄	📄	○	📄	📄	○	○	📄
	Serbia	📄	📄	📄	📄	📄	📄	📄	📄	📄
	Singapore	📄	📄	📄	📄	📄	○	📄	📄	📄
	Slovakia	📄	📄	📄	📄	📄	📄	📄	📄	📄
	Slovenia	📄	📄	📄	📄	📄	📄	📄	📄	📄
	South Africa	📄	📄	📄	📄	○	📄	📄	📄	📄
	South Korea	○	📄	📄	○	📄	○	📄	○	○
	Spain	○	○	○	○	📄	○	○	○	○
	RD413, 1699, 661	📄	📄	📄	○	📄	📄	○	📄	📄
	Sweden	📄	📄	📄	📄	📄	📄	📄	📄	📄
	Switzerland	📄	📄	📄	📄	📄	📄	📄	📄	📄
	VDE V 0126-1-1 (de)	📄	📄	📄	📄	📄	📄	📄	📄	📄
	Taiwan	📄	📄	📄	📄	📄	📄	📄	📄	📄
	Thailand	📄	📄	📄	📄	📄	📄	📄	📄	📄
	MEA	📄	📄	○	○	○	📄	○	○	📄
	PEA (VDE V 0126-1-1; IEC 62727)	📄	📄	○	○	📄	📄	○	○	○
	Tunisia	📄	📄	📄	📄	📄	📄	📄	📄	📄
	Turkey	📄	📄	📄	📄	📄	📄	○	○	📄

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 Certificate in progress

 Certificate on request