

coolcept³, coolcept³-x



Table of countries

Country		Reconnection time	Nominal voltage	Voltage disconnection values (peak values) ²⁾				Voltage disconnection values ø (average values) ³⁾				Nominal frequency	Frequency disconnection values ⁴⁾			
				upper		lower		upper		lower			upper		lower	
Name	Display ¹⁾	s	V	%	s	%	s	%	s	%	s	Hz	Hz	s	Hz	s
Bulgaria	3590 Bългарija	30	400	15.0	0.20	-20	0.20	10	600	-	-	50	0.2	0.2	-2.5	0.2
Belgium 2 unlimited	3203 Belgique 2 unl.	60	400	15.0	0.20	-20	0.20	10	600	-	-	50	1.5	0.2	-2.5	0.2
Brazil 220	5500 Brasil 220V	300	380	10.0	0.20	-20	0.40	-	-	-	-	60	2.0	0.2	-2.5	0.2
Brazil 230	5501 Brasil 230V	300	400	10.0	0.20	-20	0.40	-	-	-	-	60	2.0	0.2	-2.5	0.2
Czech Republic	42000 Česko	30	400	15.0	0.20	-15	0.20	10	600	-	-	50	0.5	0.2	-0.5	0.2
Cyprus	35700 Cyprus	180	400	10.0	0.50	-10	0.50	-	-	-	-	50	2.0	0.5	-3.0	0.5
Denmark unlimited	4500 Danmark unlimite	60	400	15.0	0.20	-20	0.20	10	600	-	-	50	1.5	0.2	-2.5	0.2
Germany	4900 Deutschland	60	400	15.0	0.20	-20	0.20	10	600	-	-	50	1.5	0.2	-2.5	0.2
Droop Mode	0007 Droop-Mode	60	400	20.0	0.50	-20	0.50	-	-	-	-	50	5.0	0.5	-3.5	0.5
Estonia	3720 Eesti	300	400	15.0	0.20	-15	1.50	-	-	-	-	50	1.0	0.5	-3.0	0.5
Ireland	35300 Éire	30	400	10.0	0.50	-10	0.50	-	-	-	-	50	0.5	0.5	-2.0	0.5
EN 50438:2007	50438 EN 50438:2007	20	400	15.0	0.20	-15	1.50	-	-	-	-	50	1.0	0.5	-3.0	0.5
EN 50438:2014	50439 EN 50438:2014	60	400	15.0	0.20	-15	1.50	10	3.0			50	2.0	0.5	-2.5	0.5
Spain	3400 España 1699	180	400	15.0	0.20	-15	1.50	10	1.5	-	-	50	0.5	0.5	-2.0	3.0
France	3300 France	30	400	15.0	0.20	-20	0.20	10	600			50	0.6	0.2	-2.5	0.2
Greek Mainland	3000 Greece continent	180	400	15.0	0.50	-20	0.50	10	600	-	-	50	0.5	0.5	-0.5	0.5
Greek Islands	3001 Greece islands	180	400	15.0	0.50	-20	0.50	10	600	-	-	50	1.0	0.5	-2.5	0.5
India	9100 India	300	400	35.0	0.05	-50	0.10	10	2.0	-15	2.0	50	1.0	0.2	-1.0	0.2
Italy 3	3902 Italia 3	30	400	22.0	0.10	-25	0.20	-	-	-	-	50	5.0	0.2	-5.0	0.2
Malaysia	6000 Malaysia	180	400	17.4	2.00	-13	2.00	-	-	-	-	50	5.0	2.0	-5.0	2.0
Mauritius	23000 Mauritius	180	400	10.0	0.20	-6	1.50	6	1.5	-	-	50	1.0	0.5	-3.0	0.5
Mexico	5200 Mexico	300	415	35.0	0.05	-50	0.10	10	600	-15	600	60	1.2	5.0	-1.2	5.0
Netherlands	3100 Nederland	30	400	10.0	2.00	-20	2.00	-	-	-	-	50	1.0	2.0	-2.0	2.0
Austria	4300 Österreich	30	400	15.0	0.10	-20	0.20	12	600	-	-	50	1.5	0.2	-2.5	0.2
Austria VN	4301 Österreich VN	30	400	15.0	0.10	-20	0.20	12	600	-	-	50	1.5	0.2	-2.5	0.2
Poland	4800 Polska	30	400	15.0	0.20	-15	1.50	10	600	-	-	50	1.0	0.5	-3.0	0.5
Slovenia	38600 Slovenija	30	400	15.0	0.20	-30	0.20	10	1.5	-15	1.5	50	1.0	0.2	-3.0	0.2
Switzerland	4100 Suisse	30	400	15.0	0.20	-20	0.20	10	600	-	-	50	0.2	0.2	-2.5	0.2
Finland	35800 Suomi	30	400	10.0	0.20	-15	0.20	-	-	-	-	50	1.0	0.2	-2.0	0.2
Sweden	4600 Sverige	30	400	15.0	0.20	-15	0.20	11	60	-	-	50	1.0	0.5	-3.0	0.5
Taiwan 220	8860 Taiwan	30	380	10.0	0.20	-12	0.20	-	-	-	-	60	0.5	0.5	-0.5	0.5
Thailand MEA	6601 Thailand MEA	300	230	50.0	0.30	-35	0.05	14	2.0	-5	2.0	50	1.0	0.1	-1.0	0.1
Thailand PEA	6600 Thailand PEA	300	220	20.0	0.16	-50	0.30	10	1.0	-10	2.0	50	1.0	0.1	-2.0	0.1
Turkey	9000 Türkiye	30	400	15.0	0.20	-20	0.20	10	600	-	-	50	0.2	0.2	-2.5	0.2

- ¹⁾ Country code and name as shown on the display.
- ²⁾ Disconnection values are upper and lower deviations from the peak values of the rated voltage (in %) and the associated switch-off time (in s).
- ³⁾ Disconnection values are upper and lower deviations from the average values of the rated voltage (in %) and the associated switch-off time (in s).
- ⁴⁾ Disconnection values are upper and lower deviations from the rated frequency (in Hz) and the associated switch-off time (in s).

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Certificates overview

Country	Standard	coolcept ³	coolcept ³ -x
-	CE certificate	yes	yes
-	EN 50438	yes	yes
-	IEC 62109-1 and -2	yes	yes
	VDE V 0126-1-1	yes	yes
Austria	TOR D4	yes	yes
Czech Republic	EN 50438:2007	yes	yes
Denmark	TR 3.2.1	on ENERGINET positive list	on ENERGINET positive list
France	Déclaration du Fabricant	yes	yes
Germany	VDE AR N 4105	yes	yes
Germany	VDE 0126-1-1	no	no
Ireland	CER/06/190	yes	yes
Italy	CEI 0-21	no	no
Poland	EN 50438:2007	yes	yes
Slovakia	EN 50438:2007	yes	yes
Sweden	EN50438:2007, SEK TK8	yes	yes

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