

# coolcept, coolcept-x



Country		Reconnection time (Recon Time)	Nominal voltage (U Nominal)	Voltage disconnection values (peak values) <sup>2)</sup>				Voltage disconnection values Ø (average values) <sup>3)</sup>				Nominal frequency (F Nominal)	Frequency disconnection values <sup>4)</sup>				Reactive power control
				upper		lower		upper		lower			upper		lower		
				(U 1UpLimit)	(U 1UpTime)	(U 1LoLimit)	(U 1LoTime)	(U UpAve)	(U UpAveTime)				(F 1UpLimit)	(F 1UpTime)	(F 1LoLimit)	(F 1LoTime)	
Name	Display <sup>1)</sup>	s	V	%	s	%	s	%	s	%	s	Hz	Hz	s	Hz	s	
Australia	6100 Australia	60	230	17.0	2.00	-13	2.00	-	-	-	-	50	5.0	2.0	-5.0	2.0	no
Bulgaria	3590 B�lgarija	30	230	15.0	0.20	-20	0.20	10	600	-	-	50	0.2	0.2	-2.5	0.2	no
Belgium 2	3203 Belgique 2 <sup>5)</sup>	60	230	15.0	0.20	-20	0.20	10	600	-	-	50	1.5	0.2	-2.5	0.2	no
Belgium 2 unlimited	3203 Belgique 2 unl.	60	230	15.0	0.20	-20	0.20	10	600	-	-	50	1.5	0.2	-2.5	0.2	no
Brazil 220	5500 Brasil 220V	300	220	10.0	0.20	-20	0.40	-	-	-	-	60	2.0	0.2	-2.5	0.2	yes
Brazil 230	5501 Brasil 230V	300	230	10.0	0.20	-20	0.40	-	-	-	-	60	2.0	0.2	-2.5	0.2	yes
Czech Republic	42000 �esko	1200	230	15.0	0.20	-15	0.20	10	600	-	-	50	0.5	0.2	-0.5	0.2	no
Cyprus	35700 Cyprus	180	230	10.0	0.50	-10	0.50	-	-	-	-	60	2.0	0.5	-3.0	0.5	yes
Denmark unlimited	4500 Danmark unl.	60	230	15.0	0.20	-20	0.20	10	600	-	-	50	1.5	0.2	-2.5	0.2	yes
Denmark 2	4501 Danmark 2 <sup>6)</sup>	60	230	15.0	0.20	-20	0.20	10	600	-	-	50	1.5	0.2	-2.5	0.2	yes
Germany	4900 Deutschland	60	230	15.0	0.20	-20	0.20	10	600	-	-	50	1.5	0.2	-2.5	0.2	yes
Estonia	3720 Eesti	300	230	15.0	0.20	-15	1.50	-	-	-	-	50	1.0	0.5	-3.0	0.5	no
Ireland	35300 �ire	30	230	10.0	0.50	-10	0.50	-	-	-	-	50	0.5	0.5	-2.0	0.5	no
Spain	3400 Espa�a 1699	180	230	15.0	0.20	-15	1.50	10	1.5	-	-	50	0.5	0.5	-2.0	3.0	no
France	3300 France	30	230	15.0	0.20	-20	0.20	10	600	-	-	50	0.6	0.2	-2.5	0.2	no
Greek Mainland	3000 Greece contin.	180	230	15.0	0.50	-20	0.50	10	600	-	-	50	0.5	0.5	-0.5	0.5	no
Greek Islands	3001 Greece islands	180	230	15.0	0.50	-20	0.50	10	600	-	-	50	1.0	0.5	-2.5	0.5	no
India	9100 India	300	230	35.0	0.05	-50	0.10	10	2.0	-15	2.0	50	1.0	0.2	-1.0	0.2	no
Israel	9720 Israel	300	230	35.0	0.05	-50	0.10	10	2.0	-15	2.0	50	1.0	2.0	-1.0	2.0	no
Italy 3	3902 Italia 3	30	230	22.0	0.10	-25	0.20	-	-	-	-	50	5.0	0.2	-5.0	0.2	no
Italy 8	3907 Italia 8 <sup>7)</sup>	300	230	15.0	0.20	-15	0.40	10	600	-15	0.4	50	0.5	0.1	-0.5	0.1	no
Italy 9	3908 Italia 9 <sup>8)</sup>	300	230	15.0	0.20	-15	0.40	10	600	-15	0.4	50	0.5	0.1	-0.5	0.1	yes
Italy 10	3909 Italia 10 <sup>7)</sup>	300	230	15.0	0.20	-15	0.40	10	600	-15	0.4	50	1.5	0.1	-2.5	0.1	no
Italy 11	3910 Italia 11 <sup>8)</sup>	300	230	15.0	0.20	-15	0.40	10	600	-15	0.4	50	1.5	0.1	-2.5	0.1	yes
Costa Rica	5060 Latinoam.60Hz	20	240	10.0	0.20	-20	0.20	-	-	-	-	60	0.6	0.2	-0.6	0.2	no
Hungary	3600 Magyarország	300	230	35.0	0.05	-50	0.10	10	2.0	-15	2.0	50	1.0	0.2	-1.0	0.2	no
Malaysia	6000 Malaysia	180	230	17.4	2.00	-13	2.00	-	-	-	-	50	5.0	2.0	-5.0	2.0	no

Mauritius	23000	Mauritius	180	230	10.0	0.20	-6	1.50	6	1.5	-	-	50	1.0	0.5	-3.0	0.5	no
Mexico	5200	Mexico	300	240	35.0	0.05	-50	0.10	10	600	-15	600	60	1.2	5.0	-1.2	5.0	yes
Netherlands	3100	Nederland	30	230	10.0	2.00	-20	2.00	-	-	-	-	50	1.0	2.0	-2.0	2.0	no
Austria	4300	Österreich	30	230	15.0	0.10	-20	0.20	12	600	-	-	50	1.5	0.2	-2.5	0.2	yes
Poland	4800	Polska	30	230	15.0	0.20	-15	1.50	10	600	-	-	50	1.0	0.5	-3.0	0.5	no
Portugal	35100	Portugal	20	230	15.0	0.20	-15	1.50	10	600	-	-	50	1.0	0.5	-3.0	0.5	no
Slovenia	38600	Slovenija	30	230	15.0	0.20	-30	0.20	10	1.5	-15	1.5	50	1.0	0.2	-3.0	0.2	no
South Africa	2700	South Africa	60	230	20.0	0.16	-50	0.20	10	2.0	-15	2.0	50	2.0	0.5	-2.5	0.5	no
Switzerland	4100	Suisse	30	230	15.0	0.20	-20	0.20	10	600	-	-	50	0.2	0.2	-2.5	0.2	no
Finland	35800	Suomi	30	230	10.0	0.20	-15	0.20	-	-	-	-	50	1.0	0.2	-2.0	0.2	no
Sweden	4600	Sverige	30	230	15.0	0.20	-15	0.20	11	60	-	-	50	1.0	0.5	-3.0	0.5	no
Tahiti	6890	Tahiti 60Hz	30	230	15.0	0.20	-20	0.20	10	600	-	-	60	2.5	0.2	-5.0	0.2	no
Taiwan 220	8860	Taiwan	300	230	10.0	0.20	-12	0.20	-	-	-	-	60	0.5	0.5	-0.5	0.5	no
Thailand MEA	6601	Thailand MEA	150	230	35.2	0.05	-50	0.10	4.3	2.0	-13	2.0	50	1.0	0.1	-1.0	0.1	no
Thailand PEA	6600	Thailand PEA	150	220	19.0	0.16	-50	0.30	10.2	1.0	-9.4	2.0	50	1.0	0.1	-2.0	0.1	yes
Turkey	9000	Türkiye	30	230	15.0	0.20	-20	0.20	10	600	-	-	50	0.2	0.2	-2.5	0.2	no
United Kingdom G59/3	4401	UK (G59/3)	180	240	19.0	0.50	-20	0.50	14	1.0	-13	2.5	50	2.0	0.5	-3.0	0.5	no
United Kingdom G83/1	4402	UK (G83/1)	20	230	14.7	1.50	-10	1.50	-	-	-	-	50	0.5	0.5	-3.0	0.5	no
United Kingdom G83/2	4400	UK (G83/2)	20	230	19.0	0.50	-20	0.50	14	1.0	-13	2.5	50	2.0	0.5	-3.0	0.5	no
EN 50438:2014	50439	EN 50438:2014	60	230	15.0	0.20	-15	1.50	10	3.0			50	2.0	0.5	-2.5	0.5	no
Droop Mode	0007	Droop-Mode 50Hz	60	230	20.0	0.50	-20	0.50	-	-	-	-	50	5.0	0.5	-3.5	0.5	no
Droop Mode 60	0008	Droop-Mode 60Hz	60	230	20.0	0.50	-20	0.50	-	-	-	-	60	5.0	0.5	-3.5	0.5	no

- 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).
- 5) Maximum output power for StecaGrid 3600 and 4200: 3330 W.
- 6) Maximum output power of all units except StecaGrid 1500 and 1800: 2000 W.
- 7) For systems smaller than 3 kW maximum power.
- 8) For systems between 3 kW and 6 kW maximum power.
- 9) Activation of DroopMode is recommended when the inverter is operated in conjunction with a stand-alone inverter. The system must not be connected to a public electricity grid.