



Main

Range of product	Conext RL
Device short name	RL 5000 E
Product or component type	Grid-tie solar inverter
Network number of phases	Single phase
Nominal output power	5 kVA

Complementary

Photovoltaic power	5.3 kW input power for maximal output power 3.2 kW input power per MPPT
Output voltage	184...276 V AC 230 V AC (nominal)
Number of MPPT	2
Maximum output current	23.2 A AC
Frequency	50/60 Hz +/- 5 Hz (output)
Cos phi	0.8 leading to lagging
Harmonic distortion	< 3 %
Input voltage	100 V DC at start 180...500 V DC MPPT 90...550 V DC operating <= 550 V DC open circuit
Input current per MPPT	<= 18 A
Efficiency	97.5 % peak 97 % European
Power consumption in W	< 1 W night time
Topology	Transformerless
Function available	Standard integrated DC disconnect (optional) Embedded data logger for 365 days
Relay type	Multifunction control relay
Display type	LCD
Messages display capacity	2 lines of 16 characters
Communication interface	Ethernet (optional) Modbus (RS485)
Type of connector	- (IP67 - output) Multicontact MC4 - input
Type of cooling	Natural convection
Height	44.5 cm
Width	51 cm
Depth	17.7 cm
Product weight	24 kg
Acoustic level	< 40 dBA
Enclosure material	Aluminium

Environment

IP degree of protection	IP65 (balance) IP65 (electronic)
Ambient air temperature for operation	-20...65 °C
Electromagnetic compatibility	Immunity for industrial environments conforming to EN 61000-6-2 Emission standard for residential, commercial and light-industrial environments conforming to EN 61000-6-3
Standards	VDE 0126 AS 3100 VDE-AR-N 4105 RD 1699 CEI 0-21 IEC 62116 IEC 61727 AS 4777 EN 50438 G83/1 engineering recommendation UTE C 15-712-1 AS 5033
Product certifications	CE marked for low voltage directive 2006/95/EC conforming to 62109-1/62109-2 CE marked for EMC directive 2004/108/EC
Operating altitude	< 2000 m
Relative humidity	4...100 % (condensing)
Environmental characteristic	Stationary use at non-weatherprotected locations, category 4K4H conforming to IEC 60721-3-4 REACH