


Technical Data

Voltage range	12 to 40 volts DC or AC RMS
Normal operating voltage	24 volts
Nominal sheet resistance	11.2 Ohms +/- 1 Ohms per square 
Efficiency	100%
Nominal thickness	500um
Temperature range	-20C to +60C
Maximum voltage	50 volts (thermal dissipation must ensure max temp not exceeded)
Dimensions	Active width 53cm Total width 60cm
Power output at 24 volts	97 Watts per metre length 162 Watts per m ² at nominal resistance
1 m ² Length	167cm length equates to 1 m ²
Termination	6.3mm tinned copper crimp blade
Maximum current	15 Amps – equates to length of 3.71m at nominal resistance and 24 volts
Maximum length	3.71 metres at 24 volts, determined by maximum current rating above
Composition	Non-woven PET fabric surfaces Internal PE + carbon nanocomposite active layer Copper busbars
Surface material	Non-woven PET fibre fabric
Weight	254g per metre length
Approval	CE



Note that due to manufacturing variations and local mains voltage variations when operated on unregulated transformers or power supplies, the resistance / power output should be checked before first use to ensure the power supply cannot be overrated

Power output at different voltages

Voltage	Power per running m watts	Power per m ² watts
12	24.3	40.4
14	33.0	55.0
16	43.1	71.9
18	54.6	91.0
20	67.4	112.3
22	81.5	135.9
24	97.0	161.7
26	113.9	189.8
28	132.1	220.1
30	151.6	252.7
32	172.5	287.5
34	194.7	324.6
36	218.3	363.9
38	243.3	405.4
40	269.5	449.2

Active width 53cm | Sheet width 60cm | Resistance 11.2 Ohms per square

These calculations are based on the independent testing with fuel pricing and efficiencies as listed on relevant pages. NexGen calculations based on every room controlled by intelligent thermostat to our transformer. A room temperature of 1 degree less than the ambient heat for systems heating air. Please note this is only a guide and many other conditions including insulation, personal thermostat preference, Hours the property is heated and location will effect these calculations.