

Illuminator Currents

iluminar

Model	Quantity	Power (Watts)	Maximum Current (Amps)			
			@ 12 Volts DC	@ 24 Volts DC/AC	@ 32 Volts DC	@ Max.Cable Length
IR148	1	15	1.25	0.63	0.47	1.5
IR312	1	26	2.17	1.08	0.81	2.6
IR623	1	39	3.25	1.63	1.22	3.9
IR919	1	52	4.33	2.17	1.63	5.2
WL105	1	15	1.25	0.63	0.47	1.5
WL220	1	26	2.17	1.08	0.81	2.6
WL436	1	39	3.25	1.63	1.22	3.9
WL643	1	52	4.33	2.17	1.63	5.2
IR148	2	30	2.50	1.25	0.94	3
IR312	2	52	4.33	2.17	1.63	5.2
IR623	2	78	6.50	3.25	2.44	7.8
IR919	2	104	8.67	4.33	3.25	10.4
WL105	2	30	2.50	1.25	0.94	3
WL220	2	52	4.33	2.17	1.63	5.2
WL436	2	78	6.50	3.25	2.44	7.8
WL643	2	104	8.67	4.33	3.25	10.4
IR148	3	45	3.75	1.88	1.41	4.5
IR312	3	78	6.50	3.25	2.44	7.8
IR623	3	117	9.75	4.88	3.66	11.7
IR919	3	156	13.00	6.50	4.88	15.6
WL105	3	45	3.75	1.88	1.41	4.5
WL220	3	78	6.50	3.25	2.44	7.8
WL436	3	117	9.75	4.88	3.66	11.7
WL643	3	156	13.00	6.50	4.88	15.6

Disclaimer:

The above current values may vary depending on the given power supply that is being used due to tolerances. Typically for smooth D.C. power supplies a tolerance error of $\pm 5-10\%$ maybe experienced. Whilst for noisy A.C. power supplies a tolerance error of $\pm 10-20\%$ maybe experienced. Also other factors such as cable length, cable size and wiring configuration may affect current values.

To calculate maximum cable lengths use our Cable Distance Calculator:

<http://www.iluminarinc.com/CableDistanceCalculator.html>