

Power Sources

Traditional building-mounted fixtures on generators or AC power systems can be used for both normal and emergency egress lighting. An emergency generator provides continuous AC power to the fixtures on the emergency circuit(s) during loss of normal power. An AC power system utilizes batteries and converts DC to AC power for the fixtures on the emergency circuit(s) during loss of normal power.

When using incandescent or fluorescent lamps for emergency egress lighting, an emergency generator or interruptible AC power system can be used. If using HID lamps, a fast-transfer AC power system or uninterruptible power supply is required to switch the power quickly enough so that the HID lamp does not lose its arc and extinguish.

Power Source System Type	Lamp Type	Lamp Watt	Start Temp (°F) *	Lamp Life (in hours) *	Lamp Lumens (initial) *
Generator/Interruptible AC Power System An emergency generator provides continuous AC power to the fixtures on the emergency circuit(s) during loss of normal power. <div style="border: 1px solid black; padding: 5px; width: fit-content;"> When using incandescent or fluorescent lamps for emergency egress lighting, an emergency generator or interruptible AC power system can be used. </div>	Incandescent	75A19	n/a	750	1,210
		100A19	n/a	750	1,750
	Compact Fluorescent	26DTT	-5	12,000	1,800
		26TRT	-5	12,000	1,800
		32TRT	-5	16,000	2,400
		42TRT	-5	16,000	3,200
Fast Transfer AC Power System An AC power system utilizes batteries and converts DC to AC power for the fixtures on the emergency circuit(s) during loss of normal power. <div style="border: 1px solid black; padding: 5px; width: fit-content;"> If using HID lamps, a fast transfer AC power system or uninterruptible power supply is required to switch the power quick enough so that the HID lamp does not lose its arc and extinguish. </div>	HPS	35S	-40	24,000	2,250
		50S	-40	24,000	4,000
		70S	-40	24,000	6,300
		100S	-40	24,000	9,500
		150S	-40	24,000	16,000
		200S	-40	24,000	21,400
	Metal Halide	250S	-40	24,000	27,000
		50M	-20	7,500	3,450
		70M	-20	11,250	5,000
		100M	-20	10,000	8,500
		150M	-20	10,000	12,500
		175M (probe)	-20	10,000	13,500
		175M (pulse)	-40	15,000	16,000
		250M (probe)	-20	12,000	20,500
250M (pulse)	-40	15,000	23,150		

*Information taken from various lamp manufacturers' literature.