

# Lighting Systems



Doosan Infracore  
Portable Power



## L20: Light and power in a single tower

The innovative L20 is a light tower and 20 kW generator all in one convenient package. The L20 from Doosan Portable Power is ideal for mining, oil and gas exploration, and other applications where an electrical power source isn't easy to come by. Four 1000-watt lamps light up the work site, while the 20-kW generator powers tools, heaters and more thus reducing the need for an additional piece of equipment on the jobsite.

- Operator-friendly control and connection panel includes auto start/stop control as a standard feature
- Automatic protective shutdowns for high coolant temperature and low oil pressure with control panel indication
- Reliable brushless alternator maintains precise voltage control under varying load conditions
- Standard front panel protective coating guards against stones and debris kicked up by the towing vehicle
- Quick disconnect lamp assemblies can be stored inside the enclosure for protection during transport or storage
- Standard with four 1000-watt metal halide lamps in cast aluminum housings for added durability and even light distribution
- 500-hour service interval ensures maximum uptime while the standard fuel/water separator filter provides an extra level of protection against fuel system impurities



	Model	L20	
Engine	Make/Model	Mitsubishi S4Q2	
	Emissions Tier Level	Tier 4 Interim (T4I)	
	Number of Cylinders	4	
	Displacement – cu in (L)	153 (2.5)	
	Power @ Rated Speed – bhp (kW)	32 (24) @ 1800 rpm	
	Cooling System	Water	
	DC System Voltage/ Battery Capacity	12 V/1000 CCA	
	Fuel Type	Diesel	
		<b>Standard</b>	<b>Optional</b>
	Usable Fuel Capacity - gal (L)	27 (102)	50 (189)
Runtime with 4 lights/ 25% load – hours	69.1	138.3	
Runtime with 50% Load – hr	25.3	50.5	
Runtime with 75% Load – hr	16.9	33.8	
Runtime with 100% Load – hr	12.6	25.3	
Generator	Prime Power Rating, 60 Hz, 1.0 PF	20 kW	
	Available Voltages – Single-Phase	120/240	
	Output @ 240 V-1Ø – amps	80	
	Output @ 120 V-1Ø – amps	160	
Receptacles Voltage Circuit Breaker Protection	120 V GFCI Duplex (NEMA 5-20R)	(2) 20 amp	
	120/240 V Twistlock (NEMA L14-30R)	(3) 30 amp	
	120/240 V Twistlock (CS6369)	(1) 50 amp	
Dimensions & Weight	Length with Drawbar – in (mm)	182 (4625)	
	Width with Fenders – in (mm)	79 (2010)	
	Track Width – in (mm)	64 (1626)	
	Height in Travel Position – in (mm)	89 (2260)	
	Tower Height – ft (m)	30 (9)	
		<b>Standard</b>	<b>Optional</b>
	Shipping Weight – lb (kg)	2540 (1155)	2769 (1256)
	Operating Weight – lb (kg)	2710 (1232)	2939 (1333)
	Sound Level @ 23 ft and 100% Load – dB(A)	70	

### L20 options

- AutoLamp System: powers on the lighting system automatically at dusk and off at dawn (or at a user-programmed interval) independent of the generator operation, allowing continuous power output while reducing fuel consumption and increasing lamp life
- Dual electric winch system with automatic safety stop
- 50-gallon fuel tank for increased runtime
- Analog fuel gauge with low fuel shutdown protection and indication
- Cold Weather Start
- Six lamps: two extra lamps for a larger illuminated area

## Light towers: Making the daylight last

Light towers from Doosan Portable Power are built with the professional-grade reliability and durability you require. With dependable engines, a brighter and wider coverage area, and cast aluminum lamp housings with tempered glass, our towers stand up to your tough jobsite.

- Able to withstand 65-mph winds with outriggers extended and jacks down
- Heavy-duty axle, wide track and low center of gravity provides trouble-free towing on road or off, and high resistance to roll-over
- Automatic protective shutdowns for high engine coolant temperature and low engine oil pressure
- Standard combination hitch with 2.5" pintle eye and 2" ball hitch (LightSource); adjustable height 3" pintle hitch standard (L6/L8)
- Fully galvanized steel tower for rust resistance and enhanced corrosion protection
- Telescoping mast with 360° rotation and position lock extends from 12' – 30' with dual, hand-operated winches and automatic safety brake
- Standard 1,000-watt metal halide lamps in cast aluminum housings for added durability and even light distribution
- Patented tower-locking system prevents telescoping during travel
- Weather-resistant connections for attaching floodlights

### LightSource options

- Dual electric winches with automatic safety stop
- Low fuel shutdown with indicator light
- Auto start/stop
- Cold weather start
- Hitches: 2" ball; adjustable height 3" pintle; 2-5/16" ball
- 50-Hz model (specs differ)



### L6 and L8 options

- Six lamps: two extra lamps for a larger illuminated area (L8 only)
- Electric brakes
- Dual electric winches with automatic safety stop
- Fuel gauge with low fuel shutdown
- Fuel/water separator
- Internal lamp storage and belly pan for protection against debris
- Tungsten halogen 1,000-watt lamps (L6 only) and 1,500-watt lamps (L8 only)
- Hitches: 2" ball; 2-5/16" ball



	Model	LightSource (LS)	L6	L8
Engine	Make/Model	Kubota D1105	Kubota D1105	Kubota D1105
	Emissions Tier Level	Tier 4 Final (T4F)	Tier 4 Final (T4F)	Tier 4 Final (T4F)
	Number of Cylinders/Displacement – cu in (L)	3/69 (1.1)	3/69 (1.1)	3/69 (1.1)
	Power @ Rated Speed – bhp (kW) @ 1800 rpm	13.6 (10.1)	13.6 (10.1)	13.6 (10.1)
	Cooling System	Water	Water	Water
	DC System Voltage / Battery Capacity	12 V/600 CCA	12 V/600 CCA	12 V/600 CCA
	Fuel Type/Usable Fuel Capacity – gal (L)	Diesel/27 (102)	Diesel/27 (102)	Diesel/27 (102)
	Runtime with 4 lights – hr	52	52	48
Generator	Prime Power Rating, 60 Hz, 1.0 PF	6 kW	6 kW	8 kW
	Available Voltages – Single-Phase	120 / 240	120 / 240	120 / 240
Receptacles w/Individual Circuit Breaker Protection	120 V GFCI Duplex (NEMA 5-20R)	(1) 15 amp	(1) 15 amp	(2) 15 amp
	240 V Twistlock (NEMA L6-30R)	(1) 25 amp	(1) 25 amp	(1) 30 amp
Dimensions & Weight	Length with Drawbar – in (mm)	172 (4370)	182 (4625)	182 (4625)
	Width with Fenders – in (mm)	62 (1575)	79 (2010)	79 (2010)
	Track Width – in (mm)	49 (1242)	64 (1626)	64 (1626)
	Height in Travel Position – in (mm)	70.5 (1790)	89 (2260)	89 (2260)
	Max Tower Height – ft (m)	30 (9)	30 (9)	30 (9)
	Shipping Weight – lb (kg)	1750 (794)	2110 (960)	2110 (960)
	Operating Weight – lb (kg)	1940 (880)	2200 (998)	2200 (998)

## BL2000 balloon light: Precise illumination in a lightweight package

The BL2000 balloon light from Doosan Portable Power plugs into any three-prong, 12-volt, 20-amp outlet and immediately provides 2,000 watts of quiet, glare-free light with fewer reflections and shadows. It inflates with ambient air, and its tilting grip head comes with optional mounting devices that let you aim light directly at your work area.

- Three-section diffusion envelope and internal reflective dome combine to light up a larger area
- Integrated thermo-switch protects light from power variations and helps control internal temperatures
- Polycarbonate shroud is impervious to the elements and protects lamps from touching the envelope
- Suspension-mounted lamp holder provides extra protection in a collision
- No fuse required
- Automatic shutoff for high internal temperatures
- Uses two inexpensive 1,000-watt bulbs for easy replacement
- Durable carrying bag included

### Optional Mounting Devices

- Pole-mount: 7' – 15' extension mounts to any equipment with locally sourced hardware
- Truck hitch-mount: 7' – 15' extension mounts directly to a vehicle's receiver hitch
- Tripod stands: 7' – 19' extension or 7' – 24' extension for stand-alone uses

### Applications

- Paving
- Construction
- Special events
- Disaster relief
- Flag stations and traffic control
- Drilling
- Agriculture
- Military
- Highway construction and maintenance
- Landscaping
- Mining
- Railroad maintenance



	Model	BL2000
Specifications	Diameter – in (m)	43.1 (1.1)
	Standard plug type	3-prong
	Power draw – amps (V)	20 (110 – 130)
	Recommended power supply – kW-V-A	2.5-120-20
	Lamps – watts	2 x 1000
	Lighted area – sq ft (m <sup>2</sup> )	15000 (1393.6)
	Operating height – ft (m)	7 – 24 (2.1 – 7.3)
	Total weight – lb (kg)	18 (8.2)
	Inflation time – sec	45
	Wind speed resistance – mph (km/h)	63 (101.4)

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