



Lighting Tower

DM DESERT MACHINERY
البيات الصحراء

4000

NIGHT PRO



MAXIMUM HEIGHT **9m**



4.000 WATTS
360.000 LUMENS



4 SPOTLIGHTS (1.000 W EACH ONE)



Night Pro **4000** RANGE

Contact US Directly:

Mobile : 00966566699789

Fax : 009666126880999

Email : info@dmgenerator.com

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Events



Road Works



Construction Sites



Industry



Rental



Mining



CS-MS-51707270105

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Its design and reduced dimensions make the product easy to move, storing up to 14 units in a 40 foot container.

These features make the lighting tower perfect for the construction, pleasure, events, civil defence, emergency and fire brigades sectors among others.



NOTES

1. The applicable voltage range is 230v for 60Hz application. For other voltages, please consult factory.
2. This generating set is of fixed speed of 1800 rpm.
3. KT9 is the prime power rating of the generating set is where a variable load and unlimited hour usage are applied with an average load factor of 80% of the prime rating over each 24-hour period. Nothing that a 10% overload is permitted for 1 hour in every 12-hour operation.
4. KY10S is the standby power rating of the generating set is where a variable load limited to an annual usage up to 500 hours is applied, with 300 hours of which be continuous running. Nothing that no overload is permitted.

The above ratings represent the generating set capability guaranteed within=3% at the reference conditions equivalent to these specified in ISO 8528/1 standard

Engine Technical Data	
Light Tower Model	Night-Pro 4000-K
Prime Power	10 Kva
Frequency	60Hz
Voltage	227V
Maximum Dimensions in Cm (Working Mode)	L 240 x W240 x H 900
Minimum Dimensions in Cm (Transport Mode)	L 240 x W136 x H240 without lamp Assy H290 with Light Assy
Weight Unfueled	735KG
Fuel type	Diesel (Fuel is according to BS2869 Class A2 or equivalent)
Tank Capacity	60 L
Maximum run time before refueling	24Hrs
ENGINE Make & Model	KUBOTA D1105-E2-BG JAPAN
Cylinders & Arrangement	3; vertical in-line
Bore & Stroke (mm)	78 x 78.4
Induction system	Naturally aspirated

Pictures for Gensets and canopies could vary from actual product.

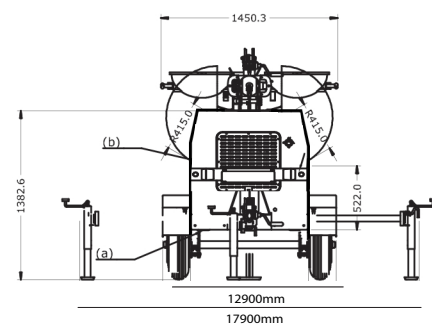
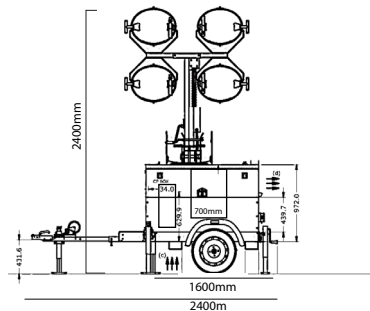
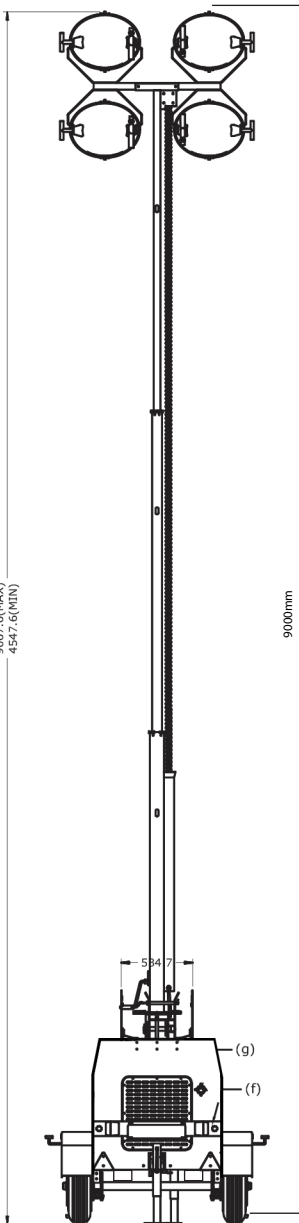
Combustion	Indirect injection
Cycle	4 stroke
Compression ratio	24
Cooling System	Water cooled
Displacement	1.123 liters
Lube oil capacity	5.1 liters Max
Coolant capacity	5.1 liters
Standard governor (Optional)	Mechanical +/-5% (Electronic)
Engine Speed	1800 rpm
Fuel Consumption @ 100% Load	2.45 (L/H)
Fuel Consumption @ 75% Load	1.84 (L/H)
Fuel Consumption @ 50% Load	1.23 (L/H)
Fuel Consumption @ 25% Load	0.62 (L/H)
Radiator Cooling Air Flow (m ³ /s)	0.35
Emissions regulations	For non-regulated territories
Exhaust temperature °C (max)	500
Max exhaust gas flow (m ³ /min)	2.24
Max. allowed back pressure (kPa)	7.1

The above performance data are valid as per the following apcs:

- Diesel fuel is according to BS2869 Class A2 or equivalent
- Lubricating oil is according to Grade SAE 15W-40 API C14
- The coolant should be 50% antifreeze and 50% fresh water

Alternator Technical Data		
Make & Model	Leroy Somer TAL040C	Linz E1X13S C/4
Frequency / No. of poles	60Hz / 4P 3-Phase	60Hz / 4P 3-Phase
Ingress protection	IP23	IP21
Insulation class	H	H
Terminals (Optional)	6 (12)	12
Excitation system	SHUNT	SHUNT
Winding pitch	2/3	2/3
AVR model	R120	Hvr11
Overspeed	2250 R.P.M.	2250 R.P.M.
Voltage regulation	± 1 %	± 1 %
Air Flow Requirement at 50Hz	0.06 m ³ /s	4.5 m ³ /s

Trailer and mast Technical Data	
Make & Model	RMC TL-9K
Tires	2x165-R13
Forklift Pocket	2 provisions
Towing	Hitch Mount
Mast	Vertical 4 stages
Rotation	350 degree with lock
Winch	Manual
Lamp Assy Type	4x 1000 Metal Halide(360,000Lu) / 4x1000 Halogen (256,000Lu) / 4x350W LED (210,000 Lu)
Light Field	Up to 3800 sqm
Jacks - Stabilizers	5 - Extendable
Filling Cap	External with Key
Fuel Gauge	Visual Internal
Auxiliary Sockets	2x16 A
Cord	~Spiral 8 wires with harness on each Assy



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Control Panel Specifications

DSE 4510MK panel is an automatic start generating set panel of microprocessor-based design which is capable of interfacing with electronic engine through the can-bus J1939. It is fully configurable by front fascia buttons and PC software as well. Circuit Breaker LS - Schneider or ABB, 2 Pole 25A MCB with 4 x 1P 10A individual CB for each Light



KEY Benefit

- Ultimate size to feature ratio
- Automatically transfers between mains (utility) and generator (DSE4520 only)
- Hours counter provides accurate information for monitoring and maintenance periods
- User-friendly set-up and button layout for ease of use
- Multiple parameters are monitored simultaneously which are clearly displayed on the largest back-lit icon display in its class
- The module can be configured to suit a wide range of applications
- Compatible with a wide range of CAN engines, including tier 4 engine support
- Uses DSE Configuration Suite PC Software for simplified configuration
- License-free PC software
- IP65 rating (with optional gasket) offers increased resistance to water ingress

KEY FEATURES

- Largest back-lit icon display in its class
- Fully configurable via the fascia or PC using USB communication
- Extremely efficient power save mode
- 3 phase generator sensing
- 3 phase mains (utility) sensing (DSE4520 only)
- Generator/load power monitoring (kW, kV A, kV Ar, pf)
- Generator/load current monitoring and protection
- Fuel and crank outputs (configurable when using CAN)
- 4 configurable DC outputs (2 for DSE4510)
- 3 configurable analogue/digital inputs
- 4 configurable digital inputs
- Configurable staged loading outputs

- CAN and alternator speed sensing in one variant
- 3 engine maintenance alarms
- Engine speed protection
- Engine hours counter
- Engine pre-heat
- Engine run-time scheduler
- Battery voltage monitoring
- Start on low battery voltage
- Configurable remote start input
- 1 alternative configuration
- Comprehensive warning, electrical trip or shutdown protection upon fault condition
- LCD alarm indication
- Event log (15)



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