

## Characteristics

### LIGHT TOWER

#### Floodlight

- 4 or 6 x 1000 Watt Metal Halide lamps.
- 4 or 6 x 9000 Lumen.
- Rugged non-corrosive cast aluminum reflector housings and tempered impact-resistant glass lens.
- Weather resistant, twist-lock connections for attaching floodlights.

#### Mast

- Fully extended 9 meters height – 360 degrees rotation, Manual mast lock and manual or electric winch for raising and lowering.

#### Enclosure

- Compact weather (or Sound) proof design with 2 lockable doors with stainless steel locks and hinges. Rugged fully enclosed, structural frame, corrosive resistant, carbonized steel frame. Polyester, powder painted.
- Two Outputs (16A, 230V) or One Output 32A, 230 V) twist lock receptacles with circuit protection.

#### Trailer

- Heavy formed welded steel, two wheels, single axle, with one wheel handle jack.
- Torsion bar suspension and 4 adjustable stabilizer support Fuel tank: 12 hours operation capacity tank with manhole filler cap.

## Dimensions

Make & Model	KC9	KC11	KC12	KC12.5	KC15	KC18
Overall Length including drawbar - in (mm)	2400		2400			2400
Overall Width - in (mm)	1400		1400			1400
Overall Height travel position - in (mm)	2630		2630			2630
Overall Height without Tower - in (mm)	1350		1350			1350
Tower Height - in (m)	7.5		7.5			7.5
Tire Size	185 R14		185 R14			185 R14
Shipping Weight - No Fuel in (Kg)	550		570			605
Working Weight - With Fuel in (Kg)	620		640			675

## Genset Technical Data

Type	KC9	KC11	KC12	KC12.5	KC15	KC18
Speed	1500 rpm	1800 rpm	1500 rpm	1800 rpm	1500 rpm	1800 rpm
Frequency	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
Voltage	230 / 400 V	220 / 380 V	230 / 400 V	220 / 380 V	230 / 400 V	220 / 380 V
Prime rating @ 0.8 PF	9.0 KVA	10.9 KVA	11.6 KVA	12.5 KVA	14.4 KVA	18.0 KVA
Stand-by rating @ 0.8 PF	9.9 KVA	12.1 KVA	12.8 KVA	14.0 KVA	16.0 KVA	20.0 KVA

- Safety features: All short circuit and overload protections.
- Protections against high temperature and low oil pressure.
- Instrumentation: Elapsed time meter, oil pressure gauge, battery charging ammeter and engine ignition switch.

## Notes

1. The applicable voltage range is 380V to 415V for 50Hz applications and 380V to 480V for 60Hz applications. For other voltage consult factory.
2. The generating sets are of switchable speed of 1500rpm or 1800rpm.
3. The prime power rating of the generating set is calculated based on a variable load and unlimited hours usage applied on the generating set with an average load factor of 80% of the prime rating over each 24 hour period. Noting that a 10% overload is available for 1 hour in every 12 hours operation.
4. The standby power rating of the generating set is calculated based a variable load limited to an annual usage up to 500 hours with 300 hours of which may be continuous running. Noting that no overload is permitted.

## Alternator Technical Data

Make & Model	Leroy Somer TAL040C		Leroy Somer TAL040C		Leroy Somer TAL040F	
Voltage Regulation	± 1 %		± 1 %		± 1 %	
Ingress Protection	IP23		IP23		IP23	
Insulation Class	H		H		H	
Terminals	6		6		6	
Frequency	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
Coolant air flow	0.06 m <sup>3</sup> /s	0.72 m <sup>3</sup> /s	0.06 m <sup>3</sup> /s	0.72 m <sup>3</sup> /s	0.06 m <sup>3</sup> /s	0.72 m <sup>3</sup> /s

- The complete generating set is type-tested according to ISO 8528-8 standard.
- The control panel is certified by an ISO17025 accredited laboratory to have IP55 according to IEC60355.

## Engine Technical Data

Make & Model	Kubota D1105-E2-BG2	Kubota D1105-E2-BG2	Kubota V1505-E2-BG2	Kubota V1505-E2-BG2	Kubota D1703-E2-BG2	Kubota D1703-E2-BG2
Cylinders & Arrangement	3: vertical in line	3: vertical in line	4: vertical in line	4: vertical in line	3: vertical in line	3: vertical in line
Induction system	Naturally aspired	Naturally aspired	Naturally aspired	Naturally aspired	Naturally aspired	Naturally aspired
Combustion	Indirect injection	Indirect injection	Indirect injection	Indirect injection	Indirect injection	Indirect injection
Cooling System	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled
Displacement	1.123 Liters	1.123 Liters	1.498 Liters	1.498 Liters	1.647 Liters	1.647 Liters
Lube oil capacity	5.1 Liters	5.1 Liters	6.0 Liters	6.0 Liters	5.6 Liters	5.6 Liters
Coolant capacity	5.1 Liters	5.1 Liters	6.7 Liters	6.7 Liters	5.5 Liters	5.5 Liters
Standard governor	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Engine Speed	1500 rpm	1800 rpm	1500 rpm	1800 rpm	1500 rpm	1800 rpm
Fuel Consumption (L/H) @ 100% Load	2.45	2.60	3.23	3.5	3.51	3.9
Fuel Consumption (L/H) @ 75% Load	1.84	1.95	2.43	2.62	2.64	2.9
Fuel Consumption (L/H) @ 50% Load	1.23	1.30	1.62	1.75	1.76	1.95
Fuel Consumption (L/H) @ 25% Load	0.62	0.65	0.81	0.88	0.88	0.98
Radiator Cooling Air Flow (m <sup>3</sup> /min)	0.35	0.44	0.48	0.60	0.49	0.60
Max exhaust gas flow (m <sup>3</sup> /min)	2.24	2.64	2.99	3.52	3.29	3.52
Emissions regulations	For unregulated territories	For unregulated territories	For unregulated territories	For unregulated territories	For unregulated territories	For unregulated territories

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

- Diesel Fuel is according to BS2869 Class A2 or equivalent.
- The coolant should be 50% antifreeze and 50% fresh water.
- Lubricating oil is according to API CI4 (15W/40).