



MP650-MP700E

Since 1996 Marapco Generating Sets have provided reliable, dependable and trustworthy power solutions for the global market. Marapco Generating Sets combine quality and performance to deliver a superior product, making Marapco a market leading Generating Set throughout Nigeria.

Generator Output Rating at - 50Hz

| 380-415V | KVA | KW |
|----------------|-------|-------|
| Prime | 650.0 | 520.0 |
| Standby | 700.0 | 560.0 |

@ 0.8 p.f.

Generator Output Rating at - 60Hz

| 480V | KVA | KW |
|----------------|-------|-------|
| Prime | 700.0 | 560.0 |
| Standby | 770.0 | 616.0 |

@ 0.8 p.f.

Engine Data

| | |
|--------------------------------|--|
| Engine Manufacturer: | Perkins UK |
| Engine Model: | 2806A-E18TAG2 |
| Number of Cylinders: | 6 |
| Cylinder Arrangement: | Vertical In Line |
| Cycle: | 4 Stroke |
| Bore/Stroke mm (in): | 145.0 (5.7) / 183.0 (7.2) |
| Induction: | Turbo charged & air - to- air Charge cooled |
| Compression ratio: | 14.5:1 |
| Displacement l (cu.in): | 18.13 (1106) |

General Data

| | Liter | US/Gal |
|----------------------------|---------------------------|--------|
| Fuel Tank Capacity: | 720.0 | 190.2 |
| Fuel Tank: | Semi Bunded | |
| Base Frame: | Heavy Duty-Powder Painted | |
| Control Panel: | Deep Sea Electronics | |
| Circuit Breaker: | 3 Pole MCCB | |

| Performance | | 50Hz | | 60Hz | |
|---------------------|--|-------|-----------|-------|-----------|
| Engine Speed: | | 1500 | | 1800 | |
| Gross Engine Power: | | kWm | Bhp | kWm | Bhp |
| Prime: | | 584.0 | 783.1 | 567.7 | 761.3 |
| Standby: | | 628.0 | 842.1 | 623.0 | 835.4 |
| Fuel Consumption: | | L/Hr | US Gal/Hr | L/Hr | US Gal/Hr |
| Prime: | | 132 | 34.87 | 127 | 35.55 |
| Standby: | | 143 | 37.78 | 141 | 37.25 |

Standard Reference Conditions:

Output ratings are presented at normal conditions of temperature and pressure. This generator set is designed to operate in high ambient temperatures and altitudes. Please consult your dealer for specific site ratings.

* In line with our policy of continuous product development, we reserve the right to change specification without notice.

Dimensions and Weights

| Length | | Width | | Height | | Dry | | Wet | |
|------------|-------|------------|------|------------|------|--------|---------|--------|---------|
| Millimeter | Inch | Millimeter | Inch | Millimeter | Inch | KG | LB | KG | LB |
| 3750 | 148.0 | 1500 | 60.0 | 2293 | 90.0 | 4693.0 | 10347.0 | 4801.0 | 10585.0 |

* With Lube Oil

* With Lube Oil & Coolant

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Rating Definition

Prime Rating

These rating are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. This model can supply 10% overload power for 1 hour in 12 hours.

Standby Rating

These rating are applicable for supply continuous electrical power (at variable load) in the event of utility power failure. No *overload* is permitted on these ratings. The alternator model is peak continuous rated (as defined in ISO 8528-3)

Air Flow

50 Hz 60 Hz

| | M ³ /min | Ft ³ /min | M ³ /min | Ft ³ /min |
|----------------------------|---------------------|----------------------|---------------------|----------------------|
| Combustion Air Flow: | 40.0 | 1413 | 45.0 | 1589 |
| Exhaust Gas Flow: | 1140 | 4026 | 118.0 | 4167 |
| Radiator Cooling Air Flow: | 702.0 | 24791 | 852.0 | 30088 |

*Cooling system designed to operate in ambient conditions

Alternator Data

Alternator Manufacturer: Leroy Somer

Alternator Model: LSA 49.1 S4

Number of Bearings: Single (1)

Insulation Class: H

Total Harmonic Content: 4.00%

Wires: 6

Ingress Protection Rating: IP 23

Excitation System: AREP

Winding Pitch Code: 2/3 - 6S

Principles



Perkins manufactures diesel engines and power solutions to the highest levels of performance and reliability. MARAPCO incorporates this engine throughout their full range.

Diesel Power



Leroy Somer is a world leader in the manufacturing of power generation, combining quality with performance to produce a market leading alternator for MARAPCO.



Deep Sea Electronics control modules deliver unrivaled functionality and performance. MARAPCO generating sets use this latest technology to its full potential.

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Sound Attenuated Enclosure

Length

| Millimeter | Inch |
|------------|-------|
| 5250 | 206.7 |

Width

| Millimeter | Inch |
|------------|------|
| 1900 | 74.8 |

Height

| Millimeter | Inch |
|------------|------|
| 2293 | 90.0 |

Sound Pressure Level's:

50 Hz

60 Hz

dBA @ 1m (100% Load)

72.0

N/A

dBA @ 5m (100% Load)

71.0

N/A

dBA @ 7m (100% Load)

70.0

N/A

*Please refer to the Sound Proof Brochure for more information

Cooling & Lubrication

50 Hz

60 Hz

| | Liter | US/Gal | Liter | US/Gal |
|--------------------|-------|--------|-------|--------|
| Coolant Capacity: | 61.0 | 16.1 | 61.0 | 16.1 |
| Lube Oil Capacity: | 62.0 | 16.4 | 62.0 | 16.4 |

| | °C | °F | °C | °F |
|----------------------|-----|------|-----|-----|
| Exhaust Temperature: | 555 | 1031 | 489 | 912 |

Other Information

Generating Set Standards

This generating set meets the following standards: ISO8528, BS4999, BS5514, IEC60034, VDE0530

Warranty

This generator is covered against manufacturing and workmanship defects. Kindly refer to warranty statement for more details.

Picture shown in leaflet may include optional accessories

Distributed & Serviced by:



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