



## MP20-MP22E

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 the Nigeria.

### Generator Output Rating at - 50Hz

380-415V	KVA	KW
Prime	20.0	16.0
Standby	22.0	17.6

@ 0.8 p.f.

### Generator Output Rating at - 60Hz

480V	KVA	KW
Prime	N/A	N/A
Standby	N/A	N/A

@ 0.8 p.f.

### Engine Data

Engine Manufacturer:	Perkins UK
Engine Model:	404A-22G1
Number of Cylinders:	4
Cylinder Arrangement:	Vertical In Line
Cycle:	4 Stroke
Bore/Stroke mm (in):	84 / 100
Induction:	Naturally Aspirated
Compression ratio:	23.3:1
Displacement l (cu.in):	2.22 (135.5)

### General Data

	Liter	US/Gal
Fuel Tank Capacity:	55.0	15.0
Fuel Tank:	Semi Bunded	
Base Frame:	Heavy Duty-Powder Coated	
Control Panel:	Deep Sea Electronics	
Circuit Breaker:	3 Pole MCB	

### Performance

	50Hz		60Hz	
Engine Speed:	1500		1800	
Gross Engine Power:	kWm	Bhp	kWm	Bhp
Prime:	18.7	25.1	-	-
Standby:	20.6	27.6	-	-
Fuel Consumption:	L/Hr	US Gal/Hr	L/Hr	US Gal/Hr
Prime:	5.3	1.40	-	-
Standby:	6.1	1.60	-	-

### 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 of change specification without notice.

### Dimensions and Weights

Length		Width		Height		Dry		Wet	
Millimeter	Inch	Millimeter	Inch	Millimeter	Inch	KG	LB	KG	LB
1450	57.1	950.0	38.0	1160	45.7	475	1047	540	1190

\* With Lube Oil

\* With Lube Oil & Coolant

### Marapco Ltd

8 Meadowbank Rd - Carrickfergus - N. Ireland - U.K. BT38 8YF  
Tel: +44 (0) 2893 355674 - www.marapco.com - Email: sales@marapco.com

## Rating Definition

### **P** Prime Rating

These ratings 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.

### **S** Standby Rating

These ratings 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

	50Hz		60Hz	
	M <sup>3</sup> /min	Ft <sup>3</sup> /min	M <sup>3</sup> /min	Ft <sup>3</sup> /min
Combustion Air Flow:	1.45	51	-	-
Exhaust Gas Flow:	3.64	129	-	-
Radiator Cooling: Air Flow	-	-	-	-

\*Cooling system designed to operate in high ambient conditions

## Alternator Data

Alternator Manufacturer: Leroy Somer

Alternator Model: TAL 040F

Number of Bearings: Single (1)

Insulation Class: H

Total Harmonic Content: <3.5% ON NO LOAD

Wires: 6

Ingress Protection Rating: IP 23

Excitation System: Shunt

Winding Pitch Code: 2/3 (winding 6S)



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



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.

Logos and Brands of Perkins, Leroy Somer, ABB & Deep Sea Electronics are registered Trademarks

## Sound Attenuated Enclosure

Length		Width		Height	
Millimeter	Inch	Millimeter	Inch	Millimeter	Inch
1850	72.8	950	37.4	1300	51.2

### Sound Pressure Level's:

**50 Hz**

**60 Hz**

dBA @ 1m (100% Load)

76.0

N/A

dBA @ 5m (100% Load)

70.0

N/A

dBA @ 7m (100% Load)

68.0

N/A

\*Please refer to the Sound Proof Brochure for more information

## Cooling & Lubrication

	50Hz		60Hz	
	Liter	US/Gal	Liter	US/Gal
Coolant Capacity:	7.0	2.0	-	-
Lube Oil Capacity:	10.6	2.8	-	-
	°C	°F	°C	°F
Exhaust Temperature:	445	833	-	-

## 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 warrant statement for more details.

Picture shown in leaflet may include optional accessories

## Distributed & Serviced by:



0611/2017

**Marapco Ltd**

8 Meadowbank Rd - Carrickfergus - N. Ireland - U.K. BT38 8YF  
Tel: +44 (0) 2893 355674 - www.marapco.com - Email: sales@marapco.com