GENERATOR SET, GASOLINE ENGINE, 15KVA 115/200V, 408HZ, 3 PHASE, ELECTRIC START

DATA SUMMARY

General

The Generator Set, Gasoline Engine, 15kVA 115/200V, 408Hz, three phase, consists of an ac generator coupled to a Volkswagen industrial type 126A gasoline, electric start engine via a flexible coupling.

Note:

- 1. NSN and Designation used in this instruction were current at the date of issue. If twelve months or more have expired since issue, the NSN should be checked for supersession.
- The equipment is intended as the prime power source for the AN/TPQ-36 Weapon Locating Radar and is mounted on the radar's pallet assembly. There are two generators per radar.
- The internal 3.5 litre fuel tank is not used for normal operation and the generator is fuelled from an external 240 litre fuel tank mounted on the pallet assembly.

Manufacturer's Detail and Physical Data

Manufacturer's Detail.

a. Designed and Developed by : Engineering Development Establishment (EDE)

Raleigh Road

MARIBYRNONG VIC 3032

b. Manufactured

d. Design

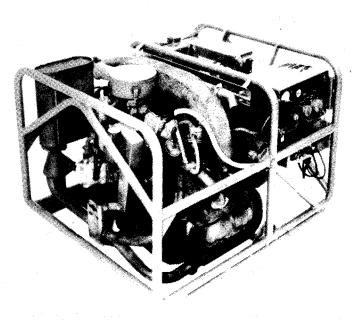
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Australian Defence

Industries

West Road

MARIBYRNONG VIC 3032



5.	Dimensions and Mass				Bore	85.5mm	
	a. Height	:	650mm	f.	Stroke	:	69mm
	b. Width	:	930mm	g.	Capacity	:	1584cc
	c. Depth	:	800mm	_	Compression Ratio	:	7.7:1
	d. Mass	:	251kg				
6.	Engine			i.	Governed Speed	:	3060 rev/min
	a. Make	*	Volks wagen	j.	Valve Clearand	ce	

Industrial b. Model Туре

126A

c. Rated Output 27kW at 3100 rev/min

Air-cooled, 4 cylinders, 4 cycle,

OHV, with two

pairs of cylinders

horizontally opposed

Up to max oil temp of 50°C

:

(1) Intake

(2) Exhaust

Radial blower driven k. Cooling

by V-belt. Fitted with

Thermostat M813

Force fed by Lubrication

gear pump

0.15mm

0.15mm

ELECTRICAL AND MECHANICAL ENGINEERING INSTRUCTIONS

•	Valve Clearance					x. Governor		Centrifugal, acting on carburettor	
(1) Intake	:	0 • 15mm					throttle	
(2	2) Exhaust	:	0.15mm		у.	011	:	OMD 40	
	Up to max o	Н	temp of 50°C		Z.	Starting System	:	Electric with crank handle supplied	
k.	ooling	:	Radial blower driven by V-belt, Fitted with Thermostat M813	7.	Ger	nerator		for emergency use	
· I Li	ubrication:	:	Force fed by gear pump		a.	Make	:	EDE design	
m. O	H	:	OMD 115 (Normal) OMD 40 (Below O ^O C)		b.	Type of Frame	: ,4 - 14	Totally enclosed, fan cooled, brushless	
n . .0	il Capacity	:	2.5 litres		· C •	Drive :	: "	Direct, flexible coupling	
o . 0	il Capacity	:	Flat tube cooler in air stream		d.	Bearings	:	Two double sealed type ball bearings	
p. F	uel	•	Gasoline, minimum octane rating - 74		е,	Field System	:	Rotating, salient pole	
a. Fi	uel Supply	•	By fuel pump		f.	Rated Speed	:	3100 rev/min	
					g.	Rated Output	:	15kVA	
r. C	arburettor	:	Solex downdraught 28 VF15-1		h.	Power Factor	:	0.8 lagging	
s. A	ir Cleaner				1.	Battery	:	12V, 44 Ampere Hour (@ 20 hour rate)	
† . I	gnition	:	High tension magneto Scintilla or Ronco		j.	Battery Charge System	:	Bosch 12V generator and regulator	
			Type VW 122.905.705H (suppressed) Contact	8.	Associated Information				
			breaker gap 0.3mm		a.	NSN	:	6115-66-123-1804	
u. S	park Plugs				b.	RPS	:	13068	
• •	1) Heat Range	:	175		С.	SCES	:	17680/1	
C	2) Thread	:	14mm		d.	Workshop Manual	:	EDE Provisional User Notes for Generator	
. •	3) Gap	:	0.3mm					Set, Gasoline Engine,	
. (4) Types	:	Bosch WC175ERT1 or Champion RML12					15kVA, 115/200V, 408Hz, 3 Phase, (Electrical Start),	
	iring rder	:	1-4-3-2					Publication number EDE 1/86	
	iring oint	:	7.5° before TDC		EM	Associated MEIs	:	RGW J 100 Series AN/TPQ-36 Weapon Locating Radar	

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