PROUDLY 100% AUSTRALIAN OWNED



VICTORIA (HEAD OFFICE) REC: 691 136 Fairbank Road, Clayton South, VIC 3169	Ph: 03 9544 4222	Fax: 03 9543 7138
NEW SOUTH WALES BRANCH REC: 261624	4C	
1 St. James Place, Seven Hills, NSW 2147	Ph: 02 9899 6699	Fax: 02 9899 8048
QUEENSLAND BRANCH REC: 72635		
31 South Pine Road, Brendale, QLD 4500	Ph: 07 3205 6333	Fax: 07 3205 6344
PO Box 5176, Clayton, VIC 3168 www.macfa	arlanegenerators.com.a	info@macgen.com
Macfarlane Generators PTY. LTD. AC	N 006 849 074 ABN 74	006 849 074

GRW405V



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Emergency Standby Power ESP	kVA	400.0
Emergency Standby Power ESP	kW	320.0
Prime power PRP	kVA	365.0
Prime power PRP	kW	292.0
Frequency	Hz	50
Voltage	V	400/230
Phases	Nº	3
Power factor	cos φ	0.8
Max current	A	577
Fuel		Diesel
[50Hz] Exhaust emission level		Stage IIIA
VERSION SWITCHABLE [50/60Hz]		YES





Ratings definition (ISO-8528)

ESP - Emergency Standby Power:

It is the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 h of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. The permissible average power output over 24 h of operation shall not exceed 70 % of the ESP.

PRP - Prime Power:

It is defined as being the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output over 24 h of operation shall not exceed 70 % of the prime power.

G2 class load acceptance in accordance with ISO 8528-5:2013 Higher performance classes check upon request.

Gensets are compliant with EC mark which includes the following directives:

- 2006/42/CE Machinery safety.
- 2014/30/UE Electromagnetic compatibility.
- 2014/35/UE electrical equipment designed for use within certain voltage limits

2000/14/EC Sound Power level. Noise emissions outdoor equipment. (amended by 2005/88/EC) - If applicable

 97/68/EC Emissions of gaseous and particulate pollutants. (amended by 2002/88/EC & 2004/26/EC) – If applicable

• EN 12100, EN 13857, EN 60204

Company with quality certification ISO 9001



Engine specifications		
Engine Brand		Volvo
Model		TAD1352GE
Engine cooling system		Water
Nr. of cylinder and disposition		6 in line
Displacement	cm ³	12780
Aspiration		Turbocharged
Speed governor		Electronic
Oil capacity	I	36
Lube oil consumption PRP (max)	%	0.1
Coolant capacity	I	24
Electric circuit	V	24
Fuel		Diesel
VERSION SWITCHABLE [50/60Hz]		YES
ENGINE DATA	Hz	50
[50Hz] Operating Speed-Nominal	rpm	1500
[50Hz] Exhaust emission level		Stage IIIA
[50Hz] Specific fuel consumption 75% PRP	g/kWh	204
[50Hz] Specific fuel consumption 100% PRP	g/kWh	196
ENGINE DATA	Hz	60
[60Hz] Operating Speed-Nominal	rpm	1800
[60Hz] Exhaust emission optimized for EPA tier (EPA)		Tier 3
[60Hz] Specific fuel consumption 75% PRP	g/kWh	209
[60Hz] Specific fuel consumption 100% PRP	g/kWh	205



Alternator Specifications	
Alternator	Leroy Somer
Model	LSA 46.3 L11
Туре	Brushless
Class	н
IP protection	23
Insulation Protection Systems	Protection System 2
Poles	4
Winding leads	12
Voltage regulation system	Electronic
Voltage tolerance	% 0.5

Installation data		
[50Hz] Cooling air	m³/min	446.80
[50Hz] Exhaust gas flow PRP	m³/min	54.8
[50Hz] Exhaust gas temperature ESP	°C	500
[60Hz] Cooling air	m³/min	522.80
[60Hz] Exhaust gas flow PRP	m³/min	62.7
[60Hz] Exhaust gas temperature ESP	°C	535





CANOPY

Canopy painted made up of modular panels with 1000h+ tested salt spray resistant zinced metal sheet, with access doors on each side with high quality gaskets and lockable handles for easy maintenance and service.

BASE FRAME

Heavy duty base guarantees the highest standards of durability and resistance, painted using a high quality powder coating process (1000+h tested salt spray resistance).

Fully bunded, able to retain 110% of all the sets fluids, the base frame is provided with integrated fork pockets and pull bar for easy maneuverability and site positioning.

SINGLE LIFTING POINT Access easy by rung and handle incorporated (available on both sides).

MANUAL BATTERY SWITCH Single pole battery switch inside the enclosure.

EARTH ROD Earth stock with cable fixed inside the genset.

DOCS HOLDER

Box intenal for documents, manuals and electrical drawings.

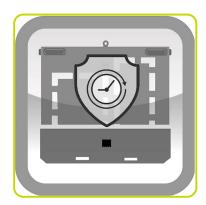
LUBE OIL DRAIN PUMP Makes it easier to the engine oil change.

FUEL VALVE (6 WAY) System designed for use the fuel from external tank and increase the autonomy of the generator.

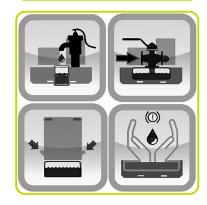
FUEL TANK Integrated metal fuel tank complete with double fuel refiling point (one each side).

LEAK PROOF TRAY WITH DETECTOR SENSOR Fluid leak check in the leak proof tray.

Fuel Tank - Autonomy		
Fuel tank location		Internal
Fuel tank material		Metal
Fuel tank capacity	Ι	1180
[50Hz 400V] Fuel consumption 75% PRP	l/h	59.07
[50Hz 400V] Running time 75% PRP	h	19.98
[50Hz 400V] Fuel consumption 100% PRP	l/h	75.20
[50Hz 400V] Running time 100% PRP	h	15.69











AUTOMATIC CONTROL PANEL

MODULAR PARALLEL PANEL

ACP - AUTOMATIC CONTROL PANEL

CONTROL SECTION:

- Auto Mains Failure (AMF) function
- Gen-set controller for single genset operating in standby or prime power modes
- Full gen-set monitoring and protection •
- Detailed event and performance log with time and date
- Emergency push button
- · Extra Instrumentation (analogue): Fuel level meter; Mechanical hour counter
- Differential protection with internal switch
- Battery charger.

SOCKET SECTION:

- · Two wires facility for remote start/stop
- Plug for auxiliary power supply
- Socket Kit: Equipment and configurations available as a supplement.

POWER SECTION:

- · It integrates 4 poles modular circuit breaker suitably rated with thermal and magnetic overloads.
- Large and robust busbar with cables passage opening from the bottom for easy power cable connection.
- Provided with safety switch to trip circuit breaker if operator open the power section door to operate on the bus bar.



CONTROL SECTION:

- Modular parallel panel allows the genset to work in parallel (up to 32 gen-sets)
- Easy switching between parallel to mains or multiple genset applications •
- Full gen-set monitoring and protection •
- Detailed event and performance log with time and date ٠
- Colour display 7" TFT with 800x480 px resolution
- · Wide range of communication and connection capabilities available
- Emergency push button
- Extra Instrumentation (analogue): Fuel level meter; Mechanical hour counter
- Differential protection with internal switch •
- Battery charger.

SOCKET SECTION:

- Multi-pin connectors for paralle running.
- Two wires facility for remote start/stop.
- Plug for auxiliary power supply.
- Socket Kit: Equipment and configurations available as a supplement.

POWER SECTION

- It integrates 4 poles motorized moulded case circuit breaker suitably rated with thermal and magnetic overloads
- Large and robust busbar with cables passage opening from the bottom for easy power cable connection.

POWER ANYWHERE, ANYTIME

Provided with safety switch to trip circuit breaker if operator open the power section door to operate on the bus bar.











1300 MAC GEN (1300 622 436)

SALES, HIRE, SERVICE, SPARES, INSTALLATION, NEW AND USED GENERATORS



ACP MPP

CANOPY VERSION

- Weatherproof Enclosure made of galvanized sheet metal allows to protect genset from corrosion and aggressive condition.
- Enclousure soundproofed by means of washable and fireproof soundproofing material, allow to reach low noise level.
- Exhaust residential silencer integrated inside the genset equipped with rain flap.
- Enclousure equipped with bumpers to prevent damage during genset handling and transport.



Dimensional data Canopy Version

Length	(L) mm	4165
Width	(W) mm	1500
Height	(H) mm	2130
Weight	Kg	4515

Noise Level 50Hz

Guaranteed noise level (LWA)	dB(A)	97
Noise pressure level @ 1 m	dB(A)	78
Noise pressure level @ 7 m	dB(A)	67



To be ordered with equipment (when necessary)

GENSET CONTROL EQUIPMENT

Dual Frequency Switch	Y400/230V 50HzY480/277V	DFS
(50/60Hz)	60Hz	



RGW

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SPK

ICL CLS

۰۰۰ IMD EAG

PWL

ELECTRICAL OPTION

Internal Canopy Lighting system with manual switch	ICL
Control section internal lighting (automatic with door switch)	CLS
DSE2157 Output (8) Expansion Module	ARM7
DSE890 MKII DSEWebNet ® Gateway 4G (GSM/Ethernet)	RGW2
Engine analogue gauges (water temp / oil pressure)	EAG
Insulation Monitoring Device (Replace standard differential protection)	IMD
Socket kit	SPK
Power lock	PWL
Bus bar arrangement	ERDF

MECHANICAL OPTION

Accessories

Pre-heating system	PHS
Water Separator Filter	WSP
Hot Parts Protections	HPP
Exhaust Spark Arestor ATEX certified	ESA
Air Shut-Off Valve	ASV
Baseframe Bumpers	BFB
Quick Fit Fuel connectors	QFC
Quick Fit Connectors inside the canopy	QFC1

PHS	ESA
BFB	QFC

A	LTS	

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LTS

The information is aligned with the Data file at the time of download. Printed on 17/07/2024 (ID 15077)

Items available as accessory equipment

Load Transfer Switch [Accessories for ACP Panel]

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