

Commercial references:
DVA/S 550 E LS

DVWA/S 520 E LS



Soundproofed genset Image for illustration purposes only

Features / Benefits

- CE compliant for stationary application
- Model available in openskid and soundproofed with galvanized rustproofed canopy.
- Designed, engineered and manufactured for an optimal performance
- External access to control and power panel
- Easy operation, maintenance and service.
- Wide range of options.

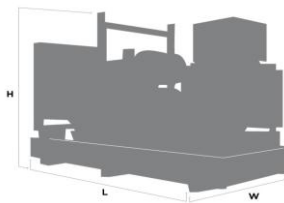
Technical data	50 Hz	60 Hz
Engine	TAD 1641 GE	TAD 1641 GE
Exhaust emission Level	EU2	EPA2
Performance class	G3	

■ Performance class in accordance with ISO 8528/5 (2005) taking into account the behaviour of the generator set in a permanent mode of operation with different load levels, as well as in a temporary mode of operation due to step loads.

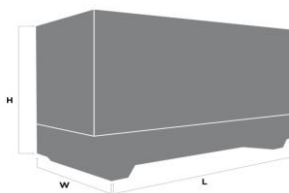
Mechanical structure	Openskid	canopy
Length (L) mm	3950	5000
Width (A) mm	1550	1650
Height (H) mm	2560	2300
Weight (kg)	4191	5561
Fuel tank capacity (l)	1038	1055
Acoustic pressure [LpA] (dBA @7m)	-	71
Acoustic power (dB(A))	-	98

Dimensions (mm)

Openskid



canopy



Note: These drawings are provided for illustration purposes only.

Ratings

Power according to the dedicated alternator

50 Hz	Prime Power	Prime Power	Standby Power	Standby Power
	kVA	kW	kVA	kW
380/220 V	500	400	559	447
400/230 V	500	400	559	447
415/240 V	500	400	559	447
60 Hz	Prime Power	Prime Power	Standby Power	Standby Power
	kVA	kW	kVA	kW
208/120 V	573	458	645	516
220/127 V	573	458	645	516
380/220 V	562	450	600	480
400/230 V	573	458	625	500
440/277 V	573	458	645	516
480/277 V	573	458	645	516

Single-phase

50 Hz	Prime Power	Prime Power	Standby Power	Standby Power
	kVA	kW	kVA	kW
220 V	-	-	-	-
230 V	-	-	-	-
240 V	-	-	-	-
60 Hz	Prime Power	Prime Power	Standby Power	Standby Power
	kVA	kW	kVA	kW
220/110 V	-	-	-	-
230/115 V	-	-	-	-
240/120 V	-	-	-	-

Prime Rating

PRIME POWER: Electrical power data available at a variable load without limits of hours per year. An overload of 10 % is allowed for 1 hour of every 12. In accordance with ISO 8528/1 (2005) – PRP

Standby Power

STANDBY POWER: Electrical power data at variable load in an emergency in accordance with standard ISO 8528/1 (2005) – ESP. Overloads of emergency power are not allowed.

Standard reference conditions

25 °C, 100 kPa and 30% relative humidity

For continuous rating gensets (COP according to ISO 8528/1:2005) please consult to your local GESAN Line ATLAS COPCO dealer

Please, contact your local GESAN Dealer for more information and visit us at gesan.com

D555V2014EN24

Engine

General	50 Hz	60 Hz
Engine Brand	VOLVO	
Model	TAD 1641 GE	TAD 1641 GE
R.P.M.	1500	1800
Net power (kWm)	473	546
Fuel	Diesel	
No. of cylinders	6	
Engine Capacity (c.c)	16120	
Bore (mm)	144	
Stroke (mm)	165	
Compression ratio	16,5:1	
Regulation class	ELECTRONIC	
Exhaust emission Level	EU2	EPA2
TA-Luft compliant	TA-Luft 1/2	
50/60 Hz Switchable engine	*	
Cooling System	50 Hz	60 Hz
Fan air flow (m3/min)	606	744
Loss of radiator admissible load (Pa)	-	-
Cooling type	WATER	
Coolant capacity (l)	60	
Design temperature radiator	55°C	55°C
Maximum working Temp.	-	-

Engine heating system	
Coolant heater power (W)	1 x 1000W

Lubrication System	
Oil capacity (l)	48
Maximum oil consumption (% fuel consumption)	0,1

Air intake system	50 Hz	60 Hz
Combustion air flow (m3/min)	35	45
Air filter	Medium	

	Exhaust System			
	Openskid		canopy	
	50 Hz	60 Hz	50 Hz	60 Hz
T exhaust gas (°C)	490	470	490	470
Gas flow (m3/min)	84	106,6	84	106,6
Maxi. exhaust back pressure (kPa)	6,2	4,9	5,9	3,2
Number of exhaust	1		1	
Input diameter (")	6	6	6	6
Output diameter (")	6	6	7,6	7,6
Attenuation (dB(A))	11		26	

Start system	
Voltage (V)	24
Battery type	2 x 12V 44Ah - 730A

Fuel consumption table

Load level	PRIME 50 Hz			STAND-BY 50 Hz			PRIME 60 Hz			STAND-BY 60 Hz		
	(L/h)	Aut. (h) Openskid	Aut. (h) canopy	(L/h)	Aut. (h) Openskid	Aut. (h) canopy	(L/h)	Aut. (h) Openskid	Aut. (h) canopy	(L/h)	Aut. (h) Openskid	Aut. (h) canopy
25%	27,6	37,6	38,2	30,9	33,6	34,1	33,8	30,7	31,2	38,7	26,8	27,3
50%	50,8	20,4	20,8	56,1	18,5	18,8	60,5	17,2	17,4	68,1	15,2	15,5
75%	75,1	13,8	14,0	83,7	12,4	12,6	89,8	11,6	11,7	101,2	10,3	10,4
100%	101,6	10,2	10,4	113,9	9,1	9,3	122,1	8,5	8,6	139,6	7,4	7,6
110%	113,9	9,1	9,3	-	-	-	139,6	7,4	7,6	-	-	-

NOTE: range according to the standard configuration.

Electric Panel

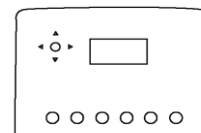
- Grounding system TN quick change and emergency shutdown pushbutton.

Voltage (V)	400/230V	480/277V	208/120V	220/127V
Frequency	50 Hz	60 Hz	60 Hz	60 Hz
Genset Circuit breaker	4P 800A R	4P 800A R	4P 2000A R	4P 2000A R

Battery electronic charger DSE 9255 - 24V 5A

Control Panel 7320

- Grid monitor
- Independent operational mode buttons
- Alarms and status indicating LEDs
- Communications via USB, RS232, RS485, as well as DSEnet® for system upgrade
- Completely configurable using a PC in Windows environment and free Scada type software in real time
- Operating modes: START-UP, SHUTDOWN, AUTO, MANUAL AND TEST.
- Events history log up to 250 events and programming of alarms, events, start-ups and shutdowns.
- Possibility of Ethernet connection (requires a separate module)
- Reading and displaying of parameters with RMS values, real time clock
- MODBUS protocol available for client software
- 32bit microprocessor.
- 132x64 pixel LCD lighting
- 5 navigation menubuttons



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D555V2014EN24

Alternator

- 4 pole alternator
- Lifetime lasting greased bearing
- H class insulation
- Brushless
- 2/3 pitch
- AVR
- Incorporates electromagnetic emissions suppressor in accordance with CE legislation
- Joining of engine and alternator through flexible disc coupling.

Regulations:

- IEC 60034
- ISO 8528/3

Low wave distortion:

- THD < 4%
- THF (IEC) < 2%
- TIF (NEMA) < 50

For models with AREP excitation system

- Excitation system with auxiliary winding
- Overload capacity 3 times the nominal current for at least 10 s

Model	LSA 47.2 M7	#N/A	LSA 47.2 M7	LSA 47.2 M7	LSA 47.2 M7
Manufacturer	LEROY SOMER		LEROY SOMER	LEROY SOMER	LEROY SOMER
Voltage (V)	400/230	#N/A	480/277	208/120	220/127
Frequency	50Hz	#N/A	60Hz	60Hz	60Hz
Alternator power (kVA)	570	#N/A	680	651	669
Power ratings	(SB27)	#N/A	(SB40)	(SB40)	(SB40)
Number of wires	12		12	12	12
Winding	6		6	6	6
IP alternator	IP 23		IP 23	IP 23	IP 23
Excitation system	AREP		AREP	AREP	AREP
AVR model	R 450		R 450	R 450	R 450
Voltage Regulation	±0,5%		±0,5%	±0,5%	±0,5%
Performance at 75% p.f. 0.8 (%)	95		95	95	95
Performance at 100% p.f. 0.8 (%)	95		95	95	95
Direct sublt. reactance X"d (p.u.)	11,1		11,6		
Subt. time constant (T"d) (ms)	10		10		
Zero sequence reactance (Xo) (ms)	0,7		0,1		
Short-circuit ratio (Kcc)	0,41		0,35		

Commercial references and ratings

Family:	D555V	50 Hz			60 Hz		
	Alternator model	Voltage	LSA 47.2 M7	#N/A	Voltage	LSA 47.2 M7	LSA 47.2 M7
Prime/Standby Power rating (kVA) for alternative voltage configuration	415/240 V	500/559			480/277 V	573/645	573/645
	400/230 V	500/559			440/254 V	573/645	573/645
	380/220 V	500/559			400/230 V	573/625	573/625
					380/220 V	562/600	562/600
					208/120 V	573/645	573/645
					220/127 V	573/645	573/645
	230 V				240/120 V		
Commercial references:	Openskid	DVA 550 E LS			DVWA 520 E LS		
	Soundproofed	DVAS 550 E LS			DVWAS 520 E LS		

Regulations:

The generator set has a CE Marking that includes the following directives:

- 2006/42/CE Machine Safety.
- 2006/95/CEE Low Voltage.
- 2004/108/CE Electromagnetic compatibility.
- 97/68/CE Gases and contaminating particles emissions.
- 2005/88/CE Noise emissions of machines outdoors in soundproof generator sets.

Applicable international regulations:

- ISO 8528
- ISO 3046
- BS 5000
- IEC 60034

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Options

Mechanical

- o Galvanised Retention Bund (For soundproofed Units)
- o Integrated Retention Bund in baseframe
- o Fuel tank 24H
- o Fuel tank 48H
- o Auxiliary Double Walled Fuel Tanks
- o Connection to external fuel tank
- o Automatic Fuel Systems
- o Standard or different color (for gensets soundproofed)
- o Mounts-Shock Absorbers
- o Earth Leakage Protection

Control panel

- o DSE 2510/20 - Remote display
- o DSE 2157 - Volt free signal
- o DSE 2130 - Inputs module
- o DSE 2548 - LED module
- o GSM modem (RS232 port required)
- o DSE 865 / 860 - TCP/IP module
- o DSE890 Webnet Gateway (Ethernet, GPRS and GPS)
- o DSE891 Ethernet Gateway
- o DSE892 SNMP Gateway
- o DSE 9260 Battery charger 24V, 10A
- o Earth Leakage Protection
- o Analogue meters
- o Insulation protection

ATS panel

ATS panel with integrated mechanical and electrical interlocking device.
High number of operations

	400/230
	50Hz
ATS panel	4P 800A

ATS optional

- o DSE 331 installed in ATS panel
- o DSE 333 installed in ATS panel

Engine

- o Electronic Governor
- o High Performance Fuel filter water Separator
- o Residential Exhaust -35 dB(A) (Open-Skid Gensets)
- o Oil Sump Pump

Alternator

- o Alternator excitation type: AREP, PMI or PMG
- o Anti condensation heaters
- o Protection System 2 or 4
- o Special AVR

AMF Synchronizing control panel

- o IG-NT (SPtM)
- o IG-NT (MINT)
- o DSE 8620
- o DSE 8610

Island Synchronizing control panel

- o DSE 8610
- o IG-NT (MINT)

Maintenance kits (*)

- o Pak 500h
- o Pak 1000h
- o Pak 2000h
- o Start-up kit

* Please consult our After-sales department for description

Grupos Electr6genos Europa, S.A. is a certified company with ISO 9001, ISO 14001, OHSAS 18001 and PECAL

GESAN reserves the right to modify any characteristic of their equipment without prior warning.

All products are designed and engineered in Zaragoza Competence Center

Weight and dimensions of a standard generator set.

Non-contractual document

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