



With over 10 years of experience in the production of our own Power Generator Sets, we can easily adjust appropriate means of production, transfer and control of energy needs for our customers, both Continuous – as the main source of energy, and Standby – as the reliable power support complex. The power ratings of Emergency Standby and Prime are in accordance with ISO 8528 and ISO 3046.

STANDBY POWER RATING is applicable for supplying emergency power for the duration of the utility power outage (more at www.genpower.pl).

PRIME POWER RATING is available for an unlimited number of hours per year in variable load application (for more details go to (more at www.genpower.pl)).

GENERATOR SET

Standby rating	697/557 [kVA/kW]
Prime rating	634/507 [kVA/kW]
Prime current	913 [A]
Voltage	230/400 [V]
Power factor	0,8 [cos φ]
Frequency	50 [Hz]

ENGINE

Manufacturer/Type	DOOSAN/P 222 LE-S
Rated speed	1500 [rpm]
Cylinders count and arrangement	12, V-type
Rated output	552 [kW]
Fuel type	Diesel
Cooling system	Liquid
Engine speed limiter	Electrical
Capacity	21,927 [l]
Auxiliary voltage	24 [V] DC
Fuel consumption at 50% load	68,3 [l/h]
Fuel consumption at 75% load	99,8 [l/h]
Fuel consumption at 100% load	130,0 [l/h]
Fuel tank capacity (enclosure)	820 [l]
Fuel tank capacity	820 [l]

GENERATOR

Type	Synchronous, brushless
Oveload capacity	110% for 1 h, within 12 h of work 150% for 2 minutes
Insulation resistance	min. 1800 V
Momentary overload	300% for 10 s
Insulation class	H
Voltage (Single phase/Three phase)	230/400 V
Voltage regulation	+/- 1%
In accordance with VDE 0530 & IEC 34-I standard	
Voltage regulation AVR	
Short circuit current	>300% I _n
IP protection	IP 21
Frequency	50 [Hz]

DIMENSIONS

Width (enclosed)	1600 (1800) [mm]
Length (enclosed)	3700 (4400) [mm]
Height (enclosed)	1970 (2490) [mm]
Weight (enclosed)	4270 (5110) [kg]

ENCLOSURE

Convenient handling
Electrostatic powder paint enclosure protection
Exhaust thermal protection
Non-combustible enclosure noise insulation fabric in accordance with DIN 4102 A2 standard

BASE FRAME

Generator set mounted to the base frame
Flexible vibration isolators
Separate fuel tank (enclosed)
Fuel tank within base frame (open)
Electronic fuel level indicator

OPTIONAL EQUIPMENT

Homologated chassis
ATS and parallel gensets operations
Container type enclosures
Engine exhaust system
Air ventilation system
Residual-current device (RCD)
Refueling pumps and additional fuel tanks
Distribution boards and cables
Remote control via PC or GSM
Analogue or digital display
GPS monitoring system
Alternative voltage applications
Spark arrester
Concrete floor slab
Warranty and post-warranty service

OPERATING DATA

Lube oil type	15W40	MOBIL
Lube oil capacity	L	40,0
Oil usage per 1 kW	%	-
Lube oil change period (Engine Operating Hours)	eoh/year	500/1
Coolant type	Antifreeze	PETRYGO
Coolant quantity	L	88,0
Coolant change period	eoh/year	1000/1
Starter batteries capacity	Ah	2 x 180
Diesel fuel specification		EN 590
Fuel consumption at 100% load	L/h	130,0
Fuel consumption at 75% load	L/h	99,8
Fuel consumption at 50% load	L/h	68,3
Fuel filter change	eoh/year	500/1
Oil filter change	eoh/year	500/1



INSTALLATION GUIDELINES

Power output	Main switch terminals	
Power output cables	Flexible cord [mm ²]	2x5x185 (<30rm)
ATS cables	Flexible cord [mm ²]	7x1,5 (<30rm)
Unit auxiliary cables	Flexible cord [mm ²]	3x2,5 (<30rm)
Engine exhaust manifold diameter	mm	2 x 82,3
Exhaust diameter (max. 7 rm, four 90° elbows)	mm	2 x 114,3
Exhaust diameter (max. 15 rm, four 90° elbows)	mm	2 x 133,0
Radiator height	mm	1220
Radiator width	mm	1310
Cool air intake area	m ²	1,88
Hot air exhaust area	m ²	1,88
Concrete floor slab dimensions	mm	2100x4700



UNIT CONTROLLER

Multifunctional LCD display
Three poles magnetothermic switch
Safety switch
Automatic start
Battery charger
ATS compatible: auto start and stop
Voltmeter
Ammeter
Coolant level indicator
Oil level indicator
Engine temperature
Oil pressure

Engine speed
Complete engine and genset protection
RMS voltage detection
RMS current/power detection
kWh counter
Engine operating hours (EOH), start and conservation counter
Configurable digital inputs
Configurable analogue inputs
Configurable transmitter inputs
PC or display controlled settings
Languages support including Polish
GL, LE marine certificates in accordance with CE directives

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Therefore, the information contained in this document may be changed. For additional information, please contact GENPOWER nearest office.