



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. Powerful, reliable and economical Generating Set Diesel Engine built on the dependable in-line six design.

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

## GENERATOR SET

Standby rating	550/440 [kVA/kW]
Prime rating	500/400 [kVA/kW]
Prime current	720 [A]
Voltage	230/400 [V]
Power factor	0,8 [cos φ]
Frequency	50 [Hz]

## ENGINE

Manufacturer/Type	VOLVO/TAD 1641 GE
Rated speed	1500 [rpm]
Cylinders count and arrangement	6, In-line
Rated output	473 [kW]
Fuel type	Diesel
Cooling system	Liquid
Engine speed limiter	Electrical
Capacity	16,12 [l]
Auxiliary voltage	24 [V] DC
Fuel consumption at 50% load	56,0 [l/h]
Fuel consumption at 75% load	82,8 [l/h]
Fuel consumption at 100% load	112,1 [l/h]
Fuel tank capacity (enclosure)	745 [l]
Fuel tank capacity	745 [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% In
IP protection	IP 21
Frequency	50 [Hz]

## DIMENSIONS

Width (enclosed)	1600 (1600) [mm]
Length (enclosed)	3794 (4400) [mm]
Height (enclosed)	2268 (2600) [mm]
Weight (enclosed)	3600 (4748) [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	48,0
Oil usage per 1 kW	%	0,1
Lube oil change period (Engine Operating Hours)	1st: after 100 eoh, subsequent: every 300 eoh	
Coolant type	Antifreeze	PETRYGO
Coolant quantity	L	60,0
Coolant change period	eoh/year	1000/1
Starter batteries capacity	Ah	2x180
Diesel fuel specification		EN 590
Fuel consumption at 100% load	L/h	112,1
Fuel consumption at 75% load	L/h	82,8
Fuel consumption at 50% load	L/h	56,0
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 <sup>2</sup> ]	2x5x240 (<30rm)
ATS cables	Flexible cord [mm <sup>2</sup> ]	7x1,5 (<30rm)
Unit auxiliary cables	Flexible cord [mm <sup>2</sup> ]	3x2,5 (<30rm)
Engine exhaust manifold diameter	mm	114,3
Exhaust diameter (max. 7 rm, four 90° elbows)	mm	159,0
Exhaust diameter (max. 15 rm, four 90° elbows)	mm	159,0
Radiator hight	mm	1493
Radiator width	mm	892
Cool air intake area	m <sup>2</sup>	1,34
Hot air exhaust area	m <sup>2</sup>	1,68
Concrete floor slab dimensions	mm	1800x4600



## UNIT CONTROLLER

Multifunctional LCD display	Engine speed
Three poles magnetothermic switch	Complete engine and genset protection
Safety switch	RMS voltage detection
Automatic start	RMS current/power detection
Battery charger	kWh counter
ATS compatible: auto start and stop	Engine operating hours (EOH), start and conservation counter
Voltmeter	Configurable digital inputs
Ammeter	Configurable analogue inputs
Coolant level indicator	Configurable transmitter inputs
Oil level indicator	PC or display controlled settings
Engine temperature	Languages support including Polish
Oil pressure	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.