

PRAMAC GSW 590 ALTS Soundproof



Main features

Standby power LTP : **553 kW**
 Rated prime power (PRP) : **503 kW**
 Rated continuous power (COP) : **kW**
 Phases : **3**
 Voltage : **480 V**
 Frequency : **60 Hz**
 Engine manufacturer : **Volvo**
 Fuel : **Diesel**
 Speed governor : **Electronic**

GSW 275-590 Series

Low noise emissions (conforming to directive 2000/14/EC, related to environmental emissions), conformity to gas emission laws and high security (lockable panels, fire canopy) make these sets ideal for any public or industrial application, such as hospitals, supermarkets, factories.

(purely indicative picture)

Technical specifications

Main specifications

Type	Canopied
Standby power LTP	691 kVA
Standby power LTP	553 kW
Rated prime power (PRP)	628 kVA
Rated prime power (PRP)	503 kW
Rated continuous power (COP)	n.a.
Rated continuous power (COP)	n.a.
Phases	3
Voltage	480 V
Frequency	60 Hz
Battery charger current	5 A
Circuit breaker	800
Ratio	1,03

Engine specifications

Engine manufacturer	Volvo
Model	TAD1642GE
Stroke	4, diesel
Fuel	Diesel
Number of cylinders and disposition	6, inline
Displacement	16120 cm ³
Air intake	Turbocharged, intercooled
Starting system	Electric
Nominal operating speed	1800 rpm
Speed governor	Electronic
SAE	1
Flywheel	14 inches
Continuous power COP	n.a.
Prime power PRP	532 kW
Standby power LTP	585 kW
Lube oil capacity	48 l
Coolant capacity	93 l
Fuel consumption at 100% PRP	132 l/h
Fuel consumption at 75% PRP	99 l/h
Maximum lube oil consumption at PRP	n.a.
Electric circuit voltage	24 V
Engine derating	1,0
Air-to-air intercooler	Yes
Air-to-water intercooler	No
Cooling fan	Mechanical

Alternator specifications

Alternator manufacturer	Stamford
Model	HCI544D
Poles	4
Revolution speed	1800 rpm
Voltage	480 V
Frequency	60 Hz
Continuous nominal power at 40°C - COP	644 kVA
Continuous nominal power at 27°C - PRP	675 kVA
Standby power at 27 °C - LTP	694 kVA
Continuous active power at 27°C - PRP	540 kW
Efficiency at 75% load	94,7 %
Efficiency at 100% load	94,5 %
Maximum admitted overload	10% for 1 hour every 12 hours of running time S2
Voltage regulation system	Electronic
Alternator derating	1,0
Protection grade	IP 23

Additional information

Fuel tank location	Internal
Fuel tank capacity	636 l
Fuel tank capacity before low fuel level alarm	578 l

Optional extended fuel tank capacity	n.a.
Real extended fuel tank capacity	n.a.
Minimum leak proof tray capacity	777 l
Running time at 100% PRP	4,8 h
Running time at 75% PRP	6 h
Running time at 75% PRP before low fuel level alarm	6 h
Real running time at 100% PRP before low fuel level alarm	n.a.
Running time at PRP (extended tank)	n.a.
Real running time at 100% PRP before engine stop (extended tank)	n.a.
Measured acoustic power (LWA) at 10 mt	n.a.
Noise level at 7 m	n.a.
Guaranteed noise level (LWA)	n.a.
EC Declaration of Conformity	No
Declaration of incorporation	No

Dimensional data

Length	4400 mm
Width	1560 mm
Height	2250 mm
Dry weight	4960 kg

Installation data

Cooling fan air flow rate	n.a.
Combustion air flow at PRP	45,4 m ³ /min
Exhaust gas flow at PRP	108,9 m ³ /min
Exhaust gas temperature at LTP	512 °C
Exhaust pipe diameter	n.a.
Maximum admitted total exhaust backpressure	100 mbar