

GGW500G

INDUSTRIAL SPARK-IGNITED GENERATOR SET



Hauptmerkmale

Frequenz	Hz	50
Spannung	V	400/231
Leistungsfaktor	cos ϕ	0.8
Phasen		3
Kraftstoff		Natural Gas

Leistungsbemessung

Emergency Standby Power ESP	kVA	500
Emergency Standby Power ESP	kW	400
Hauptleistung PRP	kVA	450
Hauptleistung PRP	kW	360

Designed to the following standards:

Ratings definition according to standard ISO8528 1:2005 normative 1000mbar, 25°C, 30% relative humidity.

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.



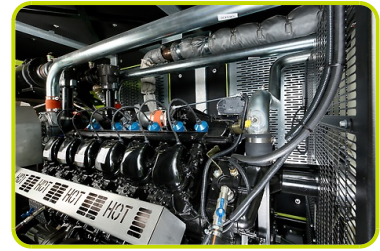
DIN	BS 5514 and 6271
SAE	SAE J1349
NFPA	NFPA 37, 70, 99, 110
NEC	NEC 700, 701, 702, 708
ISO	ISO 3046, 7637, 8528, 9001
NEMA	NEMA ICS10, MG1, 250, ICS6, AB1
ANSI	ANSI C62.41

Motor

Motor Hersteller	Generac	
Anzahl der Zylinder und Anordnung	12 Zyl. V	
Hubraum	cm³	25800
Bore	mm	132
Stroke	mm	160
Verdichtungsverhältnis	10:1	
Ansaugung	Turbolader mit Nachkühler	
Nenndrehzahl	U/min	1500
Drehzahlregler	Elektronischer	
Frequency Regulation (steady state)	% (+/-)	0.25
Kraftstoff	Natural Gas	
Ignition	Elektronischer	
Carburetor	Down Draft	
Fuel consumption 100% ESP	kg/hr	86
Fuel consumption 75% ESP	kg/hr	69
Fuel consumption 50% ESP	kg/hr	51
Fuel consumption 25% ESP	kg/hr	34
Operating Fuel Pressure	kPa	1.7-2.7
Secondary Fuel Regulator	✓	
Fuel Shutoff Solenoid (Dual)	✓	
Motor Kühlsystem	Wasser	
Cooling fan	Type	Mechanischer
Kühlflüssigkeits Menge	l	78
Oil Pump	Type	Gear
Oil Filter	Type	Twin Full Flow
Ölmenge	l	95
Elektrischer Schaltkreis	V	24
Battery charging alternator	✓	

Generator Spezifikationen

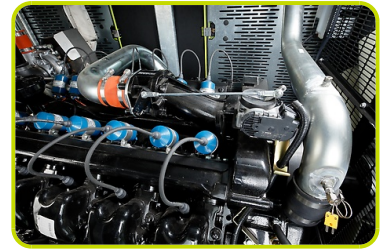
Generator	Mecc Alte	
Pole	4	
Klasse	H	
Typ	Bürstenlos	
Elektronischer Spannungsregler	DER1-A	
Spannungstoleranz	%	1
IP Schutzklasse	23	
Spannungsregelsystem	Elektronischer	



STANDARD FEATURES

ENGINE SYSTEM

- Oil drain extension
- Heavy Duty Air Cleaner
- Fan Guard
- Stainless Steel Flexible Exhaust Connection
- Factory-Filled Oil And Coolant
- Industrial Exhaust Silencer
- Air Filter restriction indicator



Fuel System

- Primary And Secondary Fuel Shutoff
- Fuel Line NPT Connection



Cooling System

- Close Coolant Recovery System
- UV/Ozone resistant hoses
- Factory Installed Radiator
- 50/50 Ethylene Glycol Antifreeze
- Radiator Drain Extension



Electrical System

- Battery Charging Alternator
- Battery Cables
- Battery Tray
- Rubber-Booted Engine Electrical Connections
- Solenoid Activated Starter Motor

ALTERNATOR SYSTEM

- Class H Insulation Material
- 2/3 Pitch
- Skewed Stator
- Auxiliary Winding Excitation System
- Sealed BEaring
- Amortisseur Winding
- Full-Load Capacity Alternator

GENERATOR SET

- Internal Genset Vibration Isolation
- Wrapped Exhaust Piping (Enclosed Only)
- Bottom (floor) power cable outlet
- 1-year Warranty or 1000 hours
- Exhaust silencer Mounted in the Discharge Hood (Enclosed Sets)

ENCLOSURE (if selected)

- High-Performance Sound Absorbing Material
- Gasketed Doors
- Galvanized Sheet Metal Construction
- Upward Facing Discharge Hood (exhaust)
- Stainless Steel Hinges



CONTROL SYSTEM

Power Zone®

Advanced integrated gen-set control platform that includes all drives and functions to manage the gas gen-set and perform an optimal combustion of the fuel, while maximizing performances.

User Interface (UI)

- 7" Color display with touch screen
- User-friendly icons
- Remote Connection via WiFi or Bluetooth



Mode of Operation)

- Manual - Automatic (ACP)
- Parallel (MPP) genset-to-genset with 4-Poles motorized CB available in MPP configurations
- Single gen-set automatic start (2-Wire)
- Single Gen-set with Mains Failure control (AMF)
- Gen-to-gen parallel (unlimited) with remote start

Program Functions

- Programmable Crank Limiter
- 7-Day programmable Exerciser
- RS232/485 Communications
- LAN communication
- 3-Phase sensing Voltage Regulator
- 2-Wire start Capability
- Date/Time Fault History (event Log)
- Isochronous Governor Control
- Audible Alarms and shutdown
- Auto On/Off Manual Switch
- E-Stop Button (Mushroom)
- Customizable Alarms, Warnings, Events
- Modbus protocol
- Predictive Maintenance Algorithm
- Sealed Boards
- Password Parameter Adjustment Protection
- Single Point Ground
- Alarm Information Automatically Announced on the touchscreen display



Full System Status Display

- Power Output (kW)
- Power Factor Cos(ϕ)
- kWh total and last run
- Active/Reactive/Apparent Power
- All Phase AC voltage
- All Phase Currents
- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Speed
- Battery Voltage
- Frequency

Alarms And Warnings

- Oil Pressure
- Coolant Temperature
- Coolant Level
- Low Fuel Pressure Alarm
- Engine Overspeed
- Battery Voltage
- Alarms and Warnings times and date stamped
- Snap Shot of key Operation Parameters during Alarms and Warnings
- Alarms and Warnings Spelled Out (No Alarm Codes)
- Multilingual

Other Protections

- Circuit Breaker (III poles)
- Emergency stop button
- 4-Poles motorized CB (Optional MPP)



Installationsdaten

Luftdurchsatz	m³/min	632.10
Abgasmenge @ PRP	m³/min	66.5
Abgastemperatur @ LTP	°C	685
Max exhaust backpressure	mbar	25.4

Stromleistung

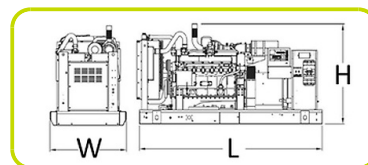
Nennspannung	A	662.26
Sicherungsschalter	A	800
Maximaler Strom	A	733.94

Offener Version



Maßangaben

Länge	(L) mm	3800
Breite	(W) mm	1666
Höhe	(H) mm	2040
Gewicht	Kg	4500

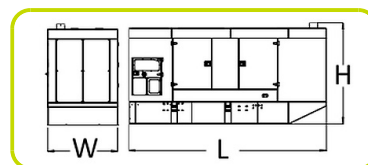


SCHALLSCHUTZGEHÄUSE VERSION



Installationsdaten

Länge	(L) mm	4700
Breite	(W) mm	1700
Höhe	(H) mm	2290



Schallpegel

Garantierter Schallpegel (LWA)	dB(A)	98
Schalldruckpegel in 1m	dB(A)	78
Schalldruckpegel in 7m	dB(A)	68



Ergänzungen:

Nur verfügbar bei Bestellung

:

GENSET EQUIPMENT

Coolant Pre-Heating System (convection type)	PHS1
Coolant Pre-Heating System (forced circulation)	PHS2
3-Way catalytic muffler	3WCM
Upsized Alternator	UAL
Permanent Magnet Generator on alternator	PMG
Genset Metal Nameplate	GMN
Without Batteries	WBAT
Hot Part Protection	HPP
Automatic Lube Oil Top Up System with lube oil tank	ALS
Different Canopy Colour	DCC

CONTROL PANEL

Genset-to-Genset Parallel Control (4-Poles motorized CB)	MPP
Four poles circuit breaker	TIF
FI-Schutzschalter	ADI
Auxiliary Contact for remote signalization	TLP
Remote Connection kit with Antenna	RCG

Zubehör

Als Zubehör erhältlich

LTS - Umschalterschütze in Schaltschrank lose beiliegend - Zubehör ACP

LTS - Load Transfer Switch, Umschaltung Netz-Generator (Zubehör zum ACP Notstrom-Automatik Panel)

Motorisierter 4-poliger Umschalter von Netz auf Generator in separatem Wand- oder Standgehäuse. Kurze Umschaltzeiten und Handbedienbarkeit kennzeichnen die neue LTS Serie mit SOCOMEC Transferschaltern. Ansteuerung erfolgt über die Generatorsteuerung (ACP Panel)

LTS mit SOCOMOEC ATyS_D:

- Metallgehäuse
- Installationsort: Wandmontage <400A, Standgehäuse =>630A
- Türe: 1 Türe mit 2 Drehriegel
- Schutzklasse : IP43
- Kabeleinführung: Unten mit verschraubten Blech
- Anschlussrichtung: Unten
- Schaltstellungsanzeige
- Auto/Manuell Betriebsartenschalter
- Halter für Handhebel
- Blockierbar mit Vorhängeschloss
- 4-polige Ausführung
- Eigenständiges Doppelnetzteil
- Spannungsbereich (Antrieb): 208/277VAC (+/-20% 166/333VAC)
- Frequenz 50 & 60HZ
- Interface ATySD10 (Digitale Betriebsanzeige IP65) in der Fronttüre zur Anzeige der Betriebsmodi (Auto/Manuell) sowie der Schaltstellung und Spannung an den Zuleitungen
- Nach IEC 60947-3, EN 61439-6-1 und GB 14048-11 Standards

Bestellbares Zubehör/Ausstattung (LTS Version ATyS_dM):

- **ESB** - Not-Aus taster in der Fronttüre
- **APP** -Plexiglas-Berührungsschutz

