

GRW200V



Generator engineered and designed to work in a wide variety of applications where temporary power supply is needed. Versatility, high efficiency, high structural resistance, high degree of protection and low noise emissions together with easy-to-use and easy access for maintenance make these generator sets the ideal solution for Rental companies.

Regim De Putere

Frecvență	Hz	50
Tensiune	V	400
Faze	№	3
Factor de putere	$\cos \phi$	0.8
Putere pasivă LTP	kVA	199.88
Putere pasivă LTP	kW	159.90
Curent maxim	A	289
Putere nominală PRP	kVA	180.00
Putere nominală PRP	kW	144.00
Curent NOMINAL	A	260



Definiție clasificări (Conform standardului ISO8528 1:2005)

PRP - Putere primă: Se definește ca fiind puterea maximă pe o poate livra continuu un grup electrogen, furnizând în același timp o sarcină electrică variabilă, când este utilizat un număr nelimitat de ore pe an în condițiile de utilizare convenite, cu intervalele de întreținere și procedurile respectate conform prevederilor producătorului. Puterea medie permisă în 24 h de funcționare nu va depăși 70% din puterea primă.

LTP - Putere de funcționare pe perioadă limitată: Se definește ca puterea maximă disponibilă, în condițiile de funcționare convenite, pe care grupul electrogen o poate livra pentru până la 500 h de funcționare pe an (și nu mai mult de 300 de utilizare continuă) cu intervalele de întreținere și procedurile respectate conform prevederilor producătorilor. Nu este disponibilă o capacitate de suprasarcină.

Alimentare 50Hz 230V trifazic (cu optional VSS)

Frecvență	Hz	50
Tensiune	V	230
Faze	№	3
Factor de putere	$\cos \phi$	0.8
Putere pasivă LTP	kVA	199.88
Putere pasivă LTP	kW	159.90
Curent maxim	A	502
Putere nominala PRP	kVA	180.00
Putere nominala PRP	kW	144.00
Curent NOMINAL	A	452

**Alimentare 60Hz 480V trifazic (cu optional DFS)**

Frecvență	Hz	60
Tensiune	V	480
Faze	№	3
Factor de putere	$\cos \phi$	0.8
Putere pasivă LTP	kVA	203.77
Putere pasivă LTP	kW	163.02
Curent maxim	A	245
Putere nominala PRP	kVA	225.00
Putere nominala PRP	kW	180.00
Curent NOMINAL	A	271

**Alimentare 60Hz 208V trifazic (cu optional VSS)**

Frecvență	Hz	60
Tensiune	V	208
Faze	№	3
Factor de putere	$\cos \phi$	0.8
Putere pasivă LTP	kVA	202.44
Putere pasivă LTP	kW	161.95
Curent maxim	A	562
Putere nominala PRP	kVA	195.00
Putere nominala PRP	kW	156.00
Curent NOMINAL	A	541



Date tehnice motor

Producător motor		Volvo
Model piesă		TAD752GE
Sistem de răcire motor		Apă
Număr cilindri și amplasare		6 in line
Deplasament	cm ³	7150
Aspirație		Turbocharged
Regulator de viteză		Electronic
Capacitate ulei	l	34
Consum lubrifiant la PRP (max)	%	0.1
Putere lichid de răcire	l	34
Circuit electric	V	24
DATE MOTOR	Hz	50
Frecvența 50Hz: Viteza nominală de operare	rpm	1500
Frecvența 50Hz: Viteza nominală de operare	rpm	1500
Emisii de eșapament optimizate pentru 97/68 50Hz (COM)		3A
[50Hz] Consum specific de combustibil la @ 75% PRP	g/kWh	216
[50Hz] Consum specific de combustibil la @ 100% PRP	g/kWh	205
Frecvența 60Hz: Viteza nominală de operare	rpm	1800
[60Hz] Consum specific de combustibil la @ 75% PRP	g/kWh	216
[60Hz] Consum specific de combustibil la @ 100% PRP	g/kWh	208



ENGINE EQUIPMENT

Standards

The engine performance corresponds to ISO 3046, BS 5514 and DIN 6271. Ratings are based on ISO 8528. Engine speed governing in accordance with ISO 3046/IV, class A1 and ISO 8528-5 class G3

Engine and block

- Optimized cast iron cylinder block with optimum distribution of forces
- Keystone top compression rings for long service life
- Replaceable valve guides and valve seats

Fuel system

- Common rail
- Engine mounted fuel pre-filter with water separator
- Fine fuel filter of cartridge insert type
- Gear driven fuel feed pump

Lubrication system

- Rotary displacement oil pump driven by the crankshaft
- Deep front oil sump, Oil filler on top, Oil dipstick, short in front
- Integrated full flow oil cooler, side-mounted

Cooling system

- Belt driven, maintenance-free coolant pump with high degree of efficiency
- Efficient cooling with accurate coolant control through a water distribution duct in the cylinder block
- Reliable thermostat with minimum pressure drop

Intake and exhaust system

- Two-stage air filter, with cyclone

Date tehnice alternator

Alternator	LEROY SOMER
Model piesă	LSA 46.3 S2
Tip	Fara perii
Clasă	H
Clasificare protecție infiltrare	23
Insulation Protection Systems	Protection System 2
Borne	4
Winding leads	12
Sistem de regulare tensiune	Electronic
Standard AVR	R 450 M
Toleranță tensiune	% 0.5



SPECIALLY ADAPTED TO APPLICATIONS

The alternator is designed to be suitable for typical generator applications, such as: backup, marine applications, rental, telecommunications, etc.

TOP OF THE RANGE ELECTRICAL PERFORMANCE

- Class H insulation.
- Standard 12 wire re-connectable winding, 2/3 pitch, type no. 6.
- High efficiency and motor starting capacity.
- R 791 interference suppression conforming to standard EN 55011 group 1 class B standard for European zone (CE marking).

EXCITATION AND REGULATION SYSTEM

- Excitation system: AREP
- Voltage A.V.R.: R 450

REINFORCED MECHANICAL STRUCTURE

- Compact rigid assembly to better withstand generator vibrations.
- Steel frame
- Cast iron flanges and shields.
- Single-bearing designed to be suitable for heat engines.
- Half-key balancing bearing.
- Sealed for life ball bearing.

PROTECTION SYSTEM SUITED TO THE ENVIRONMENT

- The LSA is IP 23.
- Winding Protection for clean environments with relative humidity $\leq 95\%$, including indoor marine environments.

COMPLIANT WITH INTERNATIONAL STANDARDS

The LSA alternator conforms to the main international standards and regulations:
- IEC 60034, NEMA MG 1.32-33, ISO 8528-3, CSA / UL 1146 (UL 1004 on request), marine regulations, etc.

The LSA is designed, manufactured and marketed in an ISO 9001 environment and ISO 14001.

Echipare generator

CANOPY

Canopy painted in RAL9016 made up of modular panels with 1000h+ tested salt spray resistant zinc metal sheet, with access doors on each side with high quality gaskets and lockable handles for easy maintenance and service.



SUPER SILENT

Soundproofing by means washable and fireproof soundproofing material, to get noise attenuation - max 75B(A)@1m.
Exhaust silencer integrated in the genset shape with flat rain flap.



BASE FRAME

Heavy duty base guarantees the highest standards of durability and resistance, painted using a high quality powder coating process (1000+h tested salt spray resistance).
Fully bunded, able to retain 110% of all the sets fluids, the base frame is provided with integrated fork pockets and pull bar for easy maneuverability and site positioning.



FUEL TANK

Integrated metal fuel tank complete with double fuel refilling point (one each side)



LEAK PROOF TRAY WITH DETECTOR SENSOR

Fluid leak check in the leak proof tray .

FUEL VALVE (6 WAY)

System designed for use the fuel from external tank and increase the autonomy of the generator

LUBE OIL DRAIN PUMP

Makes it easier to the engine oil change



SINGLE LIFTING POINT

Access easy by rung and handle incorporated (available on both sides)



PLASTIC BUMPER

Protections for the transport and stocking



MANUAL BATTERY SWITCH

EARTH ROD

Earth stock with cable fixed inside the genset



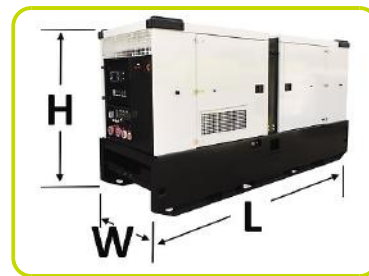
DOCS HOLDER

Box intenal for documents, manuals and electrical drawings



Date dimensionale

Lungime	(L) mm	3860
Lățime	(W) mm	1300
Înălțime	(H) mm	2000
Greutate fără combustibil	Kg	3435
Fuel tank material		Metal
Capacitate rezervor combustibil	l	1120



Autonomie

[50Hz] Consum combustibil la @ 75% PRP	l/h	32.31
[50Hz] Consum combustibil la @ 100% PRP	l/h	40.44
[50hz] Timp de funcționare la @ 75% PRP	h	34.66
[50Hz] Timp de funcționare la @ 100% PRP	h	27.70
[60Hz] Consum combustibil la @ 75% PRP	l/h	41.35
[60Hz] Consum combustibil la @ 100% PRP	l/h	52.11
[60hz] Timp de funcționare la @ 75% PRP	h	27.09
[60Hz] Timp de funcționare la @ 100% PRP	h	21.49



Nivel zgomot 50Hz (2000-14)

Nivelul de zgomot garantat (LWA)	dBA	97
Nivel de stridență a zgomotului la 1 mt	dB(A)	78
Nivel de stridență a zgomotului la 7 mt	dB(A)	68

Date instalare

[50Hz] Circuitul aerului de răcire	m ³ /min	333.30
[50Hz] Flux gaze eșapament la @ PRP	m ³ /min	29.2
[50Hz] Temperatură gaze de eșapament la LTP	°C	420
[60Hz] Circuitul aerului de răcire	m ³ /min	413.00
[60Hz] Flux gaze eșapament la @ PRP	m ³ /min	34.7
[60Hz] Temperatură gaze de eșapament la LTP	°C	440

DISPONIBILITATE PANOU DE COMANDĂ

Panou de control automat	ACP
Panou paralel modular	MPP

ACP - Panou de control automat

Mounted on the genset, complete with digital control unit (AC-03) for monitoring, control and protection of the generating set, protected through doors with lockable handle.

CONTROL SECTION

- ON/OFF selector switch
- Emergency push button
- Differential protection with internal switch
- 5A Battery charger.
- Potentiometer for voltage adjustment (internal)
- Alternator AVR (single plug wiring)

Control unit (AC-03)

- Generating set: Voltage, Current, Frequency.
- Generating set Power (kVA - kW - kVAr - Cos φ).
- Mains: voltage.
- Hours-counter.
- Battery voltage.
- Engine speed r.p.m.
- Fuel level (%), Engine temperature, Oil Pressure

Command and others:

- Four operation modes: OFF - Manual starting - Automatic starting - Automatic test.
- Pushbutton for forcing Mains contactor or Genset contactor.
- Push-buttons: start/stop, fault reset, up/down/page/enter selection.
- Acoustic alarm.
- RS232 Communication port.

Protections:

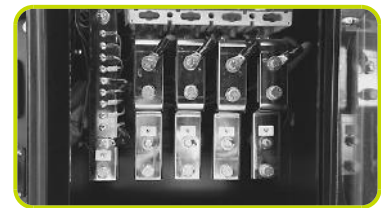
- Engine protections: low fuel level, low oil pressure, high engine temperature,
- Genset protection: under/over voltage, overload, under/over battery voltage, battery charger failure.

Extra Instrumentation (analogue)

- Fuel level meter
- Mechanical hour counter

POWER SECTION

- It integrates 4 poles modular circuit breaker suitably rated with thermal and magnetic overloads.
- Large and robust busbar with cables passage opening from the bottom for easy power cable connection.
- Provided with safety switch to trip circuit breaker if operator open the power section door to operate on the bus bar.



PANOU IEȘIRE ACP

- Posibilitate start/stop de la distanta ✓
- Priza pentru alimentare cu tensiune din sursa externa ✓
- Conector pentru LTS ✓

SUPPLEMENT - Only available when order :

Socket Kit	Type	SPKB1
3P+N+T CEE 400V 125A	n	1
3P+N+T 400V 63A	n	1
3P+N+T CEE 400V 32A	n	1
3P+N+T CEE 400V 16A	n	1
2P+T CEE 230V 16A	n	1
230V 16A SCHUKO	n	1
Fiecare priza cu intrerupator propriu		•
Protectie diferentiala pentru prizele trifazice		•
Fiecare faza este protejata cu impamantare		•
Other Kit Socket combinations available		✓

MPP - Panou paralel modular

Mounted on the genset, complete with digital control unit IntelliVision5 for monitoring, control, protection and load sharing for both single and multiple gen-sets operating in standby or parallel modes (up to 32 gen-sets in island).

CONTROL SECTION

- ON/OFF selector switch
- Emergency push button
- Differential protection with internal switch
- 5A Battery charger.
- Potentiometer for voltage adjustment (internal)
- Alternator AVR (single plug wiring)

Control Unit IntelliVision5 (5,7" Colour TFT display 320×240 pixels)

Majors Measures Available:

- Generating set: Voltage, Current, Frequency, Hours-counter
- Generating set Power: kVA, kW, kVAR, Cos φ, kWh, kVAh.
- Mains: Voltage, Current, Frequency, kW, kVAR, Cos φ.
- Engine: Speed (r.p.m.), Temperature, Oil Pressure
- Fuel level, Battery voltage

Comand and Others:

- Operation modes: OFF, AMF function, Single Parallel to mains Island application, Single Parallel to Mains AMF application, Multiple parallel genset Island application.
- Pushbuttons: start/stop, fault reset, up/down/page/enter selection.
- Acoustic alarm.

Protection:

- Engine protections: low fuel level, low oil pressure, high engine temperature.
- Genset protections: under/over voltage, overload, under/over frequency, starting failure, under/over battery voltage
- Others: overcurrent, short circuit, reverse power, Earth fault.

Extra Instrumentation (analogue)

- Fuel level meter
- Mechanical hour counter

POWER SECTION

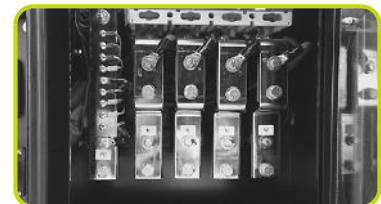
- It integrates 4 poles motorized moulded case circuit breaker suitably rated with thermal and magnetic overloads
- Large and robust busbar with cables passage opening from the bottom for easy power cable connection.
- Provided with safety switch to trip circuit breaker if operator open the power section door to operate on the bus bar.

PANOU IEȘIRE MPP

- Conector pentru functionare in paralel ✓
- Posibilitate start/stop de la distanta ✓
- Priza pentru alimentare cu tensiune din sursa externa ✓

SUPPLEMENT - Only available when order :

Socket Kit	Type	SPKB1
3P+N+T CEE 400V 125A	n	1
3P+N+T 400V 63A	n	1
3P+N+T CEE 400V 32A	n	1
3P+N+T CEE 400V 16A	n	1
2P+T CEE 230V 16A	n	1
230V 16A SCHUKO	n	1
Fiecare priza cu intrerupator propriu		•
Protectie diferentiala pentru prizele trifazice		•
Fiecare faza este protejata cu impamantare		•
Other Kit Socket combinations available		✓

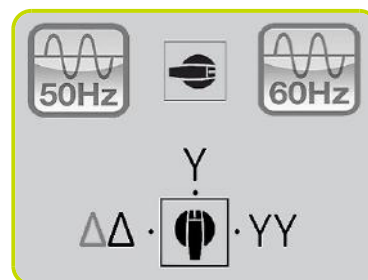


Suplimente:

Disponibil doar la comandă

ECHIPAMENT CONTROL GRUP ELECTROGEN

Switch frecventa 50/60Hz	Y400/230V 50Hz Y480/277V 60Hz	DFS
Selector de tensiune cu 2 pozitii (doar versiunile ACP/MPP si DFS)	Y400/230V 50Hz Y480/277V 60Hz YY208/120V 60Hz	VSS1
Selector de tensiune cu 3 pozitii (doar versiunile ACP/MPP si DFS)	Y400/230V 50Hz Δ230V 3P 50Hz Y480/277V 60Hz YY208/120V 60Hz	VSS2
Selector de tensiune cu 2 pozitii (doar versiunile ACP/MPP si DFS)	Y400/230V 50Hz Δ230V 3P 50Hz Y480/277V 60Hz	VSS4

**OPTIUNE ELECTRICA**

Comunicare prin IL-NT-GPRS + ANTENNA	(ACP)	RCG 16
Contacte libere de potential cu modul IL-NTEFCPM2 si rele IR-B8	(ACP)	TLP 6
Comunicare prin InternetBridge-NT	(only with MPP)	RCG 13
Contacte libere de potential cu modul IGS-PTM si rele IR-B8	(only with MPP)	TLP 4
Protectie diferentiala de tip B		ADI-B
Dispozitiv monitorizare izolatie (inlocuieste protectia diferentiala standard)		IMD
Sistem de prize configurabile		SPKS
Control section internal lighting (automatic with door switch)		CLS
Internal Canopy Lighting system with manual switch		ICL
Engine analogue gauges (water temp / oil pressure)		EAG

**OPTIUNE MECANICA**

Răcitor Sistem Preîncălzire	PHS
Conectori sistem alimentare combustibil facili	QFC
Sistem de conectare facil in interiorul carcasei	QFC1
Filtru separator apa	WSP
Filtru aer Heavy-DUTY	HDF
Protectie componente supra-incalzite	HPP
Sistem retinere scantei evacuare certificat ATEX	ESA
Supapa de inchidere aer	ASV
Sasiu galvanizat	GGS
Protectie cadru	BFB



Accesorii

Articole disponibile ca echipament accesoriu	:
RTR-B remorca echipata cu bara ajustabila pe inaltime	•
RTR - Remorcă rutieră	•
STR - Trailer șantier	•



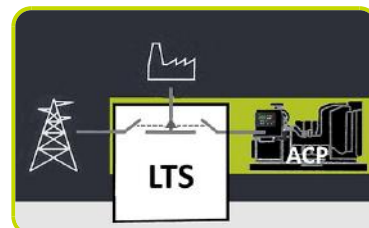
LTS - COMUTATOR DE TRANSFER DE SARCINĂ - Accesorii ACP

LTS - Panou de Transfer Sarcina [Optional pentru panoul de control automat ACP]
Panoul de transferului de sarcină (LTS) operează comutarea sursei de alimentare între generator și rețeaua de alimentare în aplicații de rezervă, garantând alimentarea într-o perioadă scurtă de timp.

Panoul LTS este compus dintr-un dulap independent care poate fi instalat separat de setul de generare. Comanda logică a comutării sursei de alimentare este acționată prin intermediul panoului de control automat (ACP) montat pe generator, deci nu este necesar nici un dispozitiv logic pe panoul LTS.

LTS de tip ATyS_D:

- Cutie: carcasa din oțel
- Mod de instalare: Montat pe perete <400A; Montat pe podea => 630A
- Usa: Usa articulată este închisă cu blocare dublă.
- Tip protecție: IP43
- Placute acces: se pot scoate pe partea superioară și inferioară
- Conexiuni: partea inferioară
- Unitate motor
- Placute acces: se pot scoate pe partea superioară și inferioară
- Conexiuni: partea inferioară
- Unitate motor
- Indicatorul de poziție a comutatorului
- Selector de acoperire automată / manuală
- Carcasa pentru manerul manual
- Mecanism de blocare
- Două întrerupătoare a sarcinii
- 4 Poli
- Bobine duble auto-alimentate
- Tensiune (bobine): 208 / 277VAC (Toleranță +/- 20% 166 / 333VAC)
- Frecvență 50 și 60 Hz
- Interfața ATyS D10, fixată pe usa pentru indicarea stării: Două lumini pentru a indica prezența tensiunii rețelei și a generatorului diesel; Două lumini pentru comutator poziție; Modul funcțional (auto / manual) și protecția IP65.
- Conform cu IEC 60947-3, EN 61439-6-1 și GB 14048-11



OTIONALE LTS DISPONIBILE LA CERERE:

- **ESB** - buton de oprire de urgență (instalat pe panoul frontal)
- **APP** - Protecție suplimentară IPXXB (plexiglas intern)

The information is aligned with the Data file at the time of download. Printed on 18/01/2020 (ID 6094)

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