



Junta Central Electoral OFERTA TECNICA

ITEM 1, POR SEIS (6) PLANTA ELECTRICA 40KW, POWERGO LSY46

Referencia: JCE-CCC-LPN-2026-0004

Marca: Powergo.

Modelo: LSY46

Salida potencia nominal: 46.4kw

Frecuencia nominal: 60Hz.

Tablero multifuncional: Incluido

Modo de regulación AVR: Incluido.

Cantidad de fases: Monofásica

Voltaje: 120/240v.

Combustible: Diésel.

Tanque de combustible 100 gal: incluido

Sistema refrigeración: Refrigerante líquido.

Arranque eléctrico: 12v.

Mantenedor de batería: incluido

Nivel de ruido: 70 decibeles.

Encapsulada (insonorizada): resistencia a la corrosión, pintada al horno con polvo de poliéster y con cerraduras.

Botón de paro de emergencia: incluido

Garantía: Uso standby 2 años o 2,000 horas lo que ocurra primero. Uso prime 1 año o 3,000 horas lo que ocurra primero.

Tiempo de entrega: 90 días luego de la formalización del contrato.

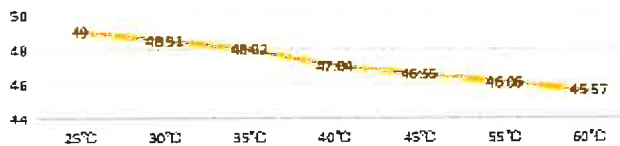
Nota: Todos los equipos serán entregados con manuales de operación y mantenimiento en idioma español, herramientas básicas de fábrica, y documentación completa de importación y nacionalización al día



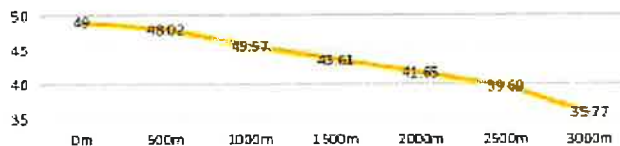


MODEL		LSY46S	
Power Pf.0.8	Standby	kVA	46.4
		kW	46.4
	Prime	kVA	41.7
		kW	41.7
	Frequency	Hz	60
	Voltage	V	208/120; 220/127; 416/240; 440/254; 480/277
Rated speed	rpm	1800	

Temperature (Celsius) Derate Curves
Unit: kVA



Altitude (meters) Derate Curves
Unit: kVA



POWERGO generator sets meet the standards of ISO9001, CE, BS5000, ISO 3046, IEC 60034, NEMA MG-1.22.

Standard reference conditions

Standard reference condition 25°C (77°F) air inlet temp, 100m (328ft) A.S.L 30% relative humidity. Fuel consumption data with diesel fuel with specific gravity of 0.85 and conforming to BS 2869: 1998, Class A2.

Standard Features

- LEES Power provides one-source responsibility for the generating system and accessories.
- The generator set and its components are prototype-tested, factory-built, and production-tested.
- The 60Hz generator set offers a AUS 2012 listing and CE 2015 listing.
- The generator set complies with ISO 8528-5 Class G3 requirements for transient performance.
- The generator set accepts rated load in one step.
- The 60Hz generator set engine is certified by the Environmental Protection Agency (EU or MEP) to conform to EU2, EU3 nonroad emissions regulations.(≤560KW)
- A one-year limited warranty covers all systems and components. Two-, five-, and ten-year extended warranties are also available.

Generator Features

- The brushless, rotating-field generator has broadrange reconnectability.
- The pilot-excited, permanent-magnet generator (PMG) provides superior short-circuit capability
- Controllers are available for all applications. See controller features inside.
- The low coolant level shutdown prevents overheating (standard on radiator models only)
- Integral vibration isolation eliminates the need for under-unit vibration spring isolators
- An electronic, isochronous governor delivers precise frequency regulation.
- Electronic engine controls and a generator microprocessor controller combine to deliver one of the most advanced control systems in today's generator market.



YANDONG Engine Model Y4105D

Main features:

- Four-cylinder, water-cooled, in-line diesel engine
- Efficient fuel system for max power output and durability
- Large-capacity air cleaner
- Cost effective, fuel efficient and reliable performance
- Functional engine with compact structure
- Excellent after-sales service and sufficient spare parts supplying
- Easy installation and ready access for routine maintenance



Engine Specifications

Engine Brand	LEES
Engine Model	Y4105D
Cylinder No. & Configuration	4 cylinder Diesel L type
Working Mode	Naturally Aspirated
Bore x Stroke	mm 105x118
Displacement	L 4.087
Compression Ratio	18
Rated Power	kW 45
Rated Speed	1800
Lubrication System	Splash Lubrication
Lube Oil	Conforms above CD class or SAE10W-30,15W-40
Lube Oil Capacity	L 13
Battery Capacity	6-QW-60(580)*2
Fuel Type	Diesel:0#(Summer),- 10#(Winter),-35#(Cold)
Fuel Consumption 25% load	L/H 4.37
Fuel Consumption 50% load	L/H 6.95
Fuel Consumption 75% load	L/H 8.68
Fuel Consumption 100% load	L/H 10.4

Alternator

Type	4-Pole, Rotating-Field
Exciter type	Brushless, Permanent-Magnet, Pilot Exciter
Voltage regulator	Solid-State, Volts/Hz
Insulation	NEMA MG1, Class H
Material	Synthetic, Nonhygroscopic
Temperature rise	130°C, 150°C Standby
Bearing: quantity, type	1, Sealed
Coupling	Flexible Disc
Amortisseur windings	Full
Rotor balancing	125% 60 Hz, 150% 50 Hz
Voltage regulation, no-load to full-load (with < 0.5% drift due to temp. variation)	3-Phase Sensing, $\pm 0.25\%$
One-step load acceptance	100% of Rating
Unbalanced load capability	100% of Rated Standby

- NEMA MG1, IEE for temperature r
- Sustained short-rated current for up to 10 seconds.
- Sustained short-circuit current enabling downstream circuit breakers to trip without collapsing the generator field.
- Self-ventilated and dripproof construction.
- Superior voltage waveform from two-thirds pitch windings and skewed stator.
- Digital solid-state volts-per-hertz voltage regulator with $\pm 0.25\%$ no-load to full-load regulation.
- Brushless alternator with brushless pilot exciter for excellent load response.



Controller



Key Features

- Using microprocessor as a core, graphics LCD with big screen and backlight, key touch for operation
- Have a RS485 port, can be used for communicate to PC
- All parameters can be set from the front panel, or be set by PC used SG72
- Security password-protected programming levels
- All parameters use digital modulation, with higher reliability and stability
- Built-in speed/frequency detecting units can accurately judge the states such as crank success and over speed
- Power supply range is wide, accommodating to different starting battery voltage environment
- Built-in watch dog can never be dead halt, ensuring smooth program execution
- Modular configuration design, inserted type connection terminals, flush type installation, compact structure, easy installation

Protection

- High engine temperature
- Low oil pressure
- Over speed
- Under speed
- Loss of speed signal
- Generator over frequency
- Generator under frequency
- Generator over voltage
- Generator under voltage
- Generator over current
- Fail to start
- Auxiliary inputs

Measurement and display of

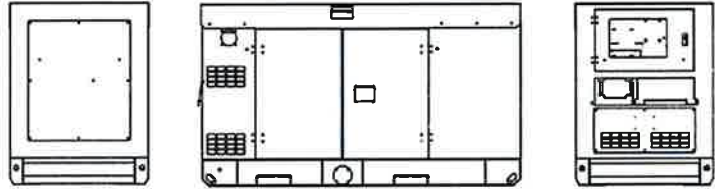
- Mains voltage
- Mains frequency
- Mains current
- Generator voltage
- Generator current
- Generator frequency
- Generator active power (kW)
- Generator inactive power (kW)
- Generator apparent power (kVA)
- Generator power factor
- Generator starts count
- Generator hour count
- Cumulate electric energy (kWh)
- Generator temperature
- Generator pressure
- Generator fuel level
- Start battery voltage

Generating Sets Standard and Optional Features

Engine

- ✔ 4-stroke, water-cooled diesel engine
- ✔ Standard air filter
- ✔ Standard fuel filter
- ✔ Standard oil filter
- ✔ Oil temperature sensor
- ✔ Low coolant level sensor
- ✔ Radiator with blowing fan
- ✔ Industrial silence
- ✔ Fuel water separator
- ✔ Water jacket heater (optional)

Overview Dimension & Weight



Alternator

- ✔ Class H insulation
- ✔ IP23 Protection
- ✔ Automatic Voltage Regulator (AVR)
- ✔ PMG excitation (optional)
- ✔ Single bearing alternator
- ✔ Class F or class B temperature rise (optional)
- ✔ Digital Voltage Regulator (optional)
- ✔ Double bearing (optional)
- ✔ Condensed heater (optional)
- ✔ IP41 Protection (optional)

LSY4993-6 (Silent type)					
Configuration	L= Length (mm)	W= Width (mm)	H= Height (mm)	Weight (kg)	Fuel Tank Capacity (L)
Silent Type	2100	880	1150	990	100

Electrical system

- ✔ Maintenance-free and anti-explosion battery
- ✔ Standard breaker
- ✔ ABB breaker (optional)
- ✔ ATS (optional)
- ✔ Battery charger (optional)
- ✔ GMS monitoring (optional)



Packing

- ✔ Engine manual
- ✔ Alternator manual
- ✔ Gensets operation and maintenance manual
- ✔ Tool kit

Baseframe

- ✔ Forklift pockets
- ✔ Pulling slots
- ✔ Earth wire protection
- ✔ Built-in anti vibration mountings
- ✔ Fuel outlet valve
- ✔ Standard fuel tank
- ✔ Enlarged fuel tank (optional)
- ✔ Separated fuel tank (optional)

Canopy

- ✔ Weatherproof & sound-attenuated canopy
- ✔ Sound-absorbing material
- ✔ Lifting lug
- ✔ Emergency stop button
- ✔ Inside silencer



**Junta Central Electoral
OFERTA TECNICA**

ITEM 2, POR TRES (3) PLANTA ELECTRICA 100KW, POWERGO LSSC125S

Referencia: JCE-CCC-LPN-2026-0004

Marca: Powergo.

Modelo: LSSC125S.

Salida potencia nominal: 100kw

Frecuencia nominal: 60Hz.

Tablero multifuncional: Incluido

Factor de potencia: 0.8 (125kva)

Modo de regulación AVR: Incluido.

Cantidad de fases: Trifásica.

Voltaje: 120/208v.

Combustible: Diésel.

Tanque de combustible 100 gal: incluido.

Sistema refrigeración: Refrigerante líquido.

Arranque eléctrico: 12v.

Mantenedor de batería: incluido

Nivel de ruido: 70 decibeles.

Encapsulada (insonorizada): resistencia a la corrosión, pintada al horno con polvo de poliéster y con cerraduras.

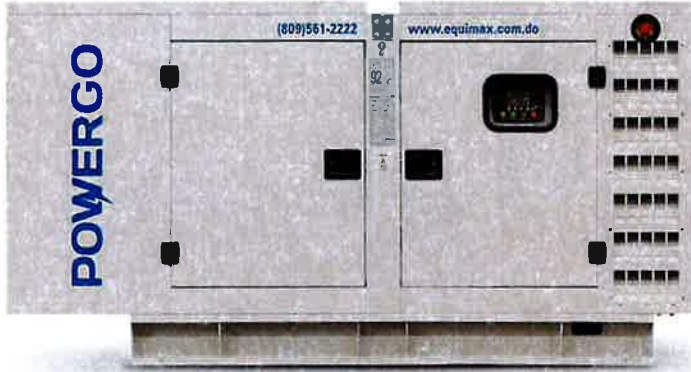
Botón de paro de emergencia: incluido

Garantía: Uso standby 2 años o 2,000 horas lo que ocurra primero. Uso prime 1 año o 3,000 horas lo que ocurra primero.

Tiempo de entrega: 90 días luego de la formalización del contrato.

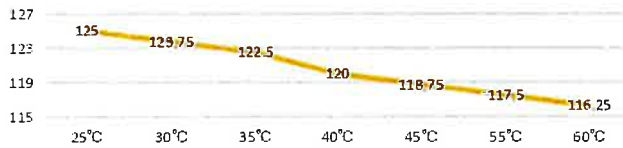
Nota: Todos los equipos serán entregados con manuales de operación y mantenimiento en idioma español, herramientas básicas de fábrica, y documentación completa de importación y nacionalización al día



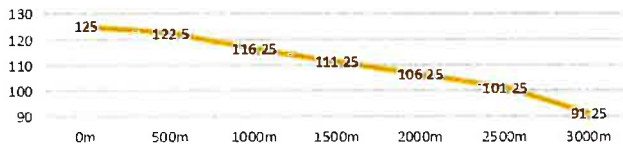


MODEL		LSSC125S	
Power Pf.0.8	Standby	kVA	125
		kW	100
	Prime	kVA	110
		kW	88
	Frequency	Hz	60
	Voltage	V	208/120; 220/127; 416/240; 440/254; 480/277
Rated speed	rpm	1800	

Temperature (Celsius) Derate Curves
Unit: kVA



Altitude (meters) Derate Curves
Unit: kVA



POWERGO generator sets meet the standards of ISO9001, CE, BS5000, ISO 8528, IO 3046, IEC 60034, NEMA mg-1.22.

Standard reference conditions:

Standard reference condition 25°C (77°F) air inlet temp, 100m (328ft) A.S.L 30% relative humidity. Fuel consumption data with diesel fuel with specific gravity of 0.85 and conforming to BS 2869: 1998, Class A2.

Standard Features

- LEES Power provides one-source responsibility for the generating system and accessories.
- The generator set and its components are prototype-tested, factory-built, and production-tested.
- The 60Hz generator set offers a AUS 2012 listing and CE 2015 listing.
- The generator set complies with ISO 8528-5, Class G3 requirements for transient performance.
- The generator set accepts rated load in one step.
- The 60Hz generator set engine is certified by the Environmental Protection Agency (EU or MEP) to conform to EU2, EU3 nonroad emissions regulations.(≤560KW)
- A one-year limited warranty covers all systems and components. Two-, five-, and ten-year extended warranties are also available.

Generator Features

- The brushless, rotating-field generator has broadrange reconnectability.
- The pilot-excited, permanent-magnet generator (PMG) provides superior short-circuit capability
- Controllers are available for all applications. See controller features inside.
- The low coolant level shutdown prevents overheating (standard on radiator models only)
- Integral vibration isolation eliminates the need for under-unit vibration spring isolators
- An electronic, isochronous governor delivers precise frequency regulation.
- Electronic engine controls and a generator microprocessor controller combine to deliver one of the most advanced control systems in today's generator market.

SDEC engine model

Main features:

- Four-cylinder, water-cooled, in-line diesel engine
- Efficient fuel system for max power output and durability
- Large-capacity air cleaner
- Cost effective, fuel efficient and reliable performance
- Functional engine with compact structure
- Excellent after-sales service and sufficient spare parts supplying
- Easy installation and ready access for routine maintenance



Engine Specifications

Engine Brand	SDEC
Engine Model	4HTAA4.3-G21
Cylinder No. & Configuration	4 cylinder Diesel L type
Working Mode	Inter cooler Turbo
Bore x Stroke	mm 110x125
Displacement	L 4.75
Compression Ratio	17
Rated Power	kW 85
Rated Speed	1800
Lubrication System	Splash Lubrication
Lube Oil	Conforms above CD class or SAE10W-30,15W-40
Lube Oil Capacity	L 14
Battery Capacity	6-QW-80(600)*2
Fuel Type	Diesel:0#(Summer),- 10#(Winter),-35#(Cold)
Fuel Consumption 25% load	L/H 4.5
Fuel Consumption 50% load	L/H 9.2
Fuel Consumption 75% load	L/H 12.8
Fuel Consumption 100% load	L/H 18.1

Alternator

Type	4-Pole, Rotating-Field
Exciter type	Brushless, Permanent-Magnet, Pilot Exciter
Voltage regulator	Solid-State, Volts/Hz
Insulation	NEMA MG1, Class H
Material	Synthetic, Nonhygroscopic
Temperature rise	130°C, 150°C Standby
Bearing: quantity, type	1, Sealed
Coupling	Flexible Disc
Amortisseur windings	Full
Rotor balancing	125% 60 Hz, 150% 50 Hz
Voltage regulation, no-load to full-load (with < 0.5% drift due to temp. variation)	3-Phase Sensing, $\pm 0.25\%$
One-step load acceptance	100% of Rating
Unbalanced load capability	100% of Rated Standby

- NEMA MG1, IEEE, and ANSI standards compliance for temperature rise and motor starting.
- Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds.
- Sustained short-circuit current enabling downstream circuit breakers to trip without collapsing the generator field.
- Self-ventilated and dripproof construction.
- Superior voltage waveform from two-thirds pitch windings and skewed stator.
- Digital solid-state volts-per-hertz voltage regulator with $\pm 0.25\%$ no-load to full-load regulation.
- Brushless alternator with brushless pilot exciter for excellent load response.



Controller



Key Features

- Using microprocessor as a core, graphics LCD with big screen and backlight, key touch for operation
- Have a RS485 port, can be used for communicate to PC
- All parameters can be set from the front panel, or be set by PC used SG72
- Security password-protected programming levels
- All parameters use digital modulation, with higher reliability and stability
- Built-in speed/frequency detecting units can accurately judge the states such as crank success and over speed
- Power supply range is wide, accommodating to different starting battery voltage environment
- Built-in watch dog can never be dead halt, ensuring smooth program execution
- Modular configuration design, inserted type connection terminals, flush type installation, compact structure, easy installation

Protection

- High engine temperature
- Low oil pressure
- Over speed
- Under speed
- Loss of speed signal
- Generator over frequency
- Generator under frequency
- Generator over voltage
- Generator under voltage
- Generator over current
- Fail to start
- Auxiliary inputs

Precision measure and display of

- Mains voltage
- Mains frequency
- Mains current
- Generator voltage
- Generator current
- Generator frequency
- Generator active power (kW)
- Generator inactive power (kW)
- Generator apparent power (kVA)
- Generator power factor
- Generator starts count
- Generator hour count
- Cumulate electric energy (kWh)
- Generator temperature
- Generator pressure
- Generator fuel level
- Start battery voltage

Generating Sets Standard and Optional Features

Engine

- 4-stroke, water-cooled diesel engine
- Standard air filter
- Standard fuel filter
- Standard oil filter
- Oil temperature sensor
- Low coolant level sensor
- Radiator with blowing fan
- Industrial silence
- Fuel water separator
- Water jacket heater (optional)

Alternator

- Class H insulation
- IP23 Protection
- Automatic Voltage Regulator (AVR)
- PMG excitation (optional)
- Single bearing alternator
- Class F or class B temperature rise (optional)
- Digital Voltage Regulator (optional)
- Double bearing (optional)
- Condensed heater (optional)
- IP41 Protection (optional)

Electrical system

- Maintenance-free and anti-explosion battery
- Standard breaker
- ABB breaker (optional)
- ATS (optional)
- Battery charger (optional)
- GMS monitoring (optional)

Packing

- Engine manual
- Alternator manual
- Gensets operation and maintenance manual
- Tool kit

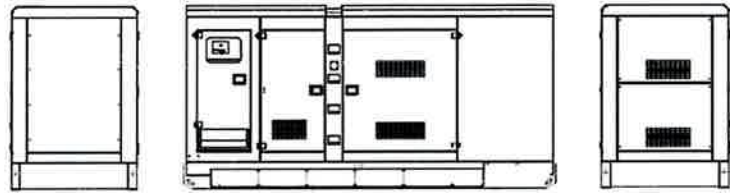
Baseframe

- Forklift pockets
- Pulling slots
- Earth wire protection
- Built-in anti vibration mountings
- Fuel outlet valve
- Standard fuel tank
- Enlarged fuel tank (optional)
- Separated fuel tank (optional)

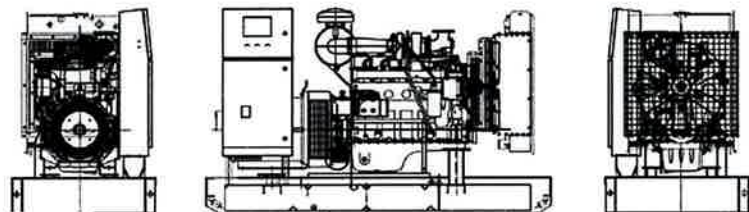
Canopy

- Weatherproof & sound-attenuated canopy
- Sound-absorbing material
- Lifting lug
- Emergency stop button
- Inside silencer

Overview Dimensions & Weight



LSY125S3-6 (Silent type)					
Configuration	L= Length (mm)	W= Width (mm)	H= Height (mm)	Weight (kg)	Fuel Tank Capacity (L)
Silent Type	2960	1100	1650	1690	436



LSY125E3-6 (Open type)					
Configuration	L= Length (mm)	W= Width (mm)	H= Height (mm)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	2150	990	1450	1257	220





**Junta Central Electoral
OFERTA TECNICA**

ITEM 3, POR UNA (1) PLANTA ELECTRICA 200KW, POWERGO LSSC250S

Referencia: JCE-CCC-LPN-2026-0004

Marca: Powergo.

Modelo: LSSC250S.

Salida potencia nominal: 200kw

Frecuencia nominal: 60Hz.

Tablero multifuncional: Incluido

Modo de regulación AVR: Incluido.

Cantidad de fases: monofásica.

Voltaje: 120/240v.

Combustible: Diésel.

Tanque de combustible 100 gal: incluido.

Sistema refrigeración: Refrigerante líquido.

Arranque eléctrico: 12v.

Mantenedor de batería: incluido

Nivel de ruido: 70 decibeles.

Encapsulada (insonorizada): resistencia a la corrosión, pintada al horno con polvo de poliéster y con cerraduras.

Botón de paro de emergencia: incluido

Garantía: Uso standby 2 años o 2,000 horas lo que ocurra primero. Uso prime 1 año o 3,000 horas lo que ocurra primero.

Tiempo de entrega: 90 días luego de la formalización del contrato.

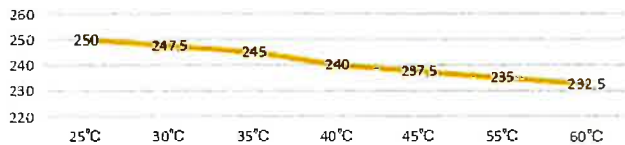
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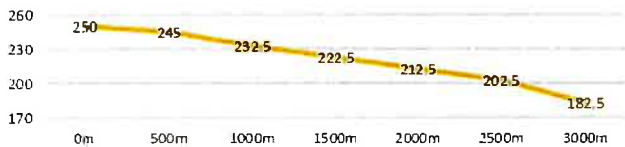


MODEL		LSSC250S	
Power Pf.0.8	Standby	kVA	250
		kW	200
	Prime	kVA	220
		kW	176
	Frequency	Hz	60
	Voltage	V	208/120; 220/127; 416/240; 440/254; 480/277
Rated speed	rpm	1800	

Temperature (Celsius) Derate Curves
Unit: kVA



Altitude (meters) Derate Curves
Unit: kVA



POWERGO generator sets meet the standards of ISO9001, CE, BS5000, ISO 8528, IO 3046, IEC 60034, NEMA mg-1.22.

Standard reference conditions:

Standard reference condition 25°C (77°F) air inlet temp, 100m (328ft) A.S.L 30% relative humidity. Fuel consumption data with diesel fuel with specific gravity of 0.85 and conforming to BS 2869: 1998, Class A2.

Standard Features

- LEES Power provides one-source responsibility for the generating system and accessories.
- The generator set and its components are prototype-tested, factory-built, and production-tested.
- The 60Hz generator set offers a AUS 2012 listing and CE 2015 listing.
- The generator set complies with ISO 8528-5, Class G3 requirements for transient performance.
- The generator set accepts rated load in one step.
- The 60Hz generator set engine is certified by the Environmental Protection Agency (EU or MEP) to conform to EU2, EU3 nonroad emissions regulations.(≤560KW)
- A one-year limited warranty covers all systems and components. Two-, five-, and ten-year extended warranties are also available.

Generator Features

- The brushless, rotating-field generator has broadrange reconnectability.
- The pilot-excited, permanent-magnet generator (PMG) provides superior short-circuit capability
- Controllers are available for all applications. See controller features inside.
- The low coolant level shutdown prevents overheating (standard on radiator models only)
- Integral vibration isolation eliminates the need for under-unit vibration spring isolators
- An electronic, isochronous governor delivers precise frequency regulation.
- Electronic engine controls and a generator microprocessor controller combine to deliver one of the most advanced control systems in today's generator market.

SDEC engine model

Main features:

- Six-cylinder, water-cooled, in-line diesel engine
- Efficient fuel system for max power output and durability
- Large-capacity air cleaner
- Cost effective, fuel efficient and reliable performance
- Functional engine with compact structure
- Excellent after-sales service and sufficient spare parts supplying
- Easy installation and ready access for routine maintenance



Engine Specifications

Engine Brand	SDEC
Engine Model	6DTAA8.9-G21
Cylinder No.& Configuration	6 cylinder Diesel L type
Working Mode	Inter cooler Turbo
Bore x Stroke	mm 120x130
Displacement	L 8.822
Compression Ratio	17.5
Rated Power	kW 215
Rated Speed	1800
Lubrication System	Splash Lubrication
Lube Oil	Conforms above CD class or SAE10W-30,15W-40
Lube Oil Capacity	L 23
Battery Capacity	6-QW-80(600)*2
Fuel Type	Diesel:0#(Summer),- 10#(Winter),-35#(Cold)
Fuel Consumption 25% load	L/H 14
Fuel Consumption 50% load	L/H 28
Fuel Consumption 75% load	L/H 41.7
Fuel Consumption 100% load	L/H 54.4

Alternator

Type	4-Pole, Rotating-Field
Exciter type	Brushless, Permanent-Magnet, Pilot Exciter
Voltage regulator	Solid-State, Volts/Hz
Insulation	NEMA MG1, Class H
Material	Synthetic, Nonhygroscopic
Temperature rise	130°C, 150°C Standby
Bearing: quantity, type	1, Sealed
Coupling	Flexible Disc
Amortisseur windings	Full
Rotor balancing	125% 60 Hz, 150% 50 Hz
Voltage regulation, no-load to full-load (with < 0.5% drift due to temp. variation)	3-Phase Sensing, $\pm 0.25\%$
One-step load acceptance	100% of Rating
Unbalanced load capability	100% of Rated Standby

- NEMA MG1, IEEE, and ANSI standards compliance for temperature rise and motor starting.
- Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds.
- Sustained short-circuit current enabling downstream circuit breakers to trip without collapsing the generator field.
- Self-ventilated and drip-proof construction.
- Superior voltage waveform from two-thirds pitch windings and skewed stator.
- Digital solid-state volts-per-hertz voltage regulator with $\pm 0.25\%$ no-load to full-load regulation.
- Brushless alternator with brushless pilot exciter for excellent load response.



Controller



Key Features

- Using microprocessor as a core, graphics LCD with big screen and backlight, key touch for operation
- Have a RS485 port, can be used for communicate to PC
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Protection

- High engine temperature
- Low oil pressure
- Over speed
- Under speed
- Loss of speed signal
- Generator over frequency
- Generator under frequency
- Generator over voltage
- Generator under voltage
- Generator over current
- Fail to start
- Auxilliary inputs

Neasure and display of

- Mains voltage
- Mains frequency
- Mains current
- Generator voltage
- Generator current
- Generator frequency
- Generator active power (kW)
- Generator inactive power (kW)
- Generator apparent power (kVA)
- Generator power factor
- Generator starts count
- Generator hour count
- Cumulate electric energy (kWh)
- Generator temperature
- Generator pressure
- Generator fuel level
- Start battery voltage

Generating Sets Standard and Optional Features

Engine

- 4-stroke, water-cooled diesel engine
- Standard air filter
- Standard fuel filter
- Standard oil filter
- Oil temperature sensor
- Low coolant level sensor
- Radiator with blowing fan
- Industrial silence
- Fuel water separator
- Water jacket heater (optional)

Alternator

- Class H insulation
- IP23 Protection
- Automatic Voltage Regulator (AVR)
- PMG excitation (optional)
- Single bearing alternator
- Class F or class B temperature rise (optional)
- Digital Voltage Regulator (optional)
- Double bearing (optional)
- Condensed heater (optional)
- IP41 Protection (optional)

Electrical system

- Maintenance-free and anti-explosion battery
- Standard breaker
- ABB breaker (optional)
- ATS (optional)
- Battery charger (optional)
- GMS monitoring (optional)

Packing

- Engine manual
- Alternator manual
- Gensets operation and maintenance manual
- Tool kit

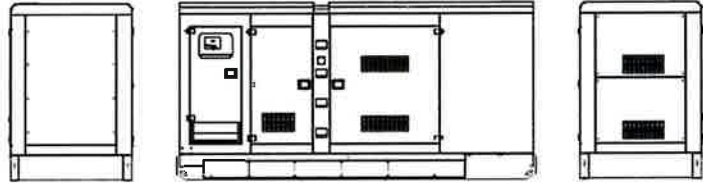
Baseframe

- Forklift pockets
- Pulling slots
- Earth wire protection
- Built-in anti vibration mountings
- Fuel outlet valve
- Standard fuel tank
- Enlarged fuel tank (optional)
- Separated fuel tank (optional)

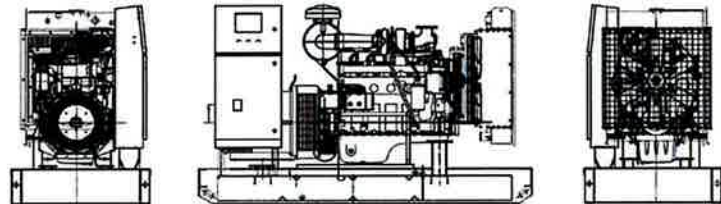
Canopy

- Weatherproof & sound-attenuated canopy
- Sound-absorbing material
- Lifting lug
- Emergency stop button
- Inside silencer

Overview Dimension & Weight



LSY250S3-6 (Silent type)					
Configuration	L= Length (mm)	W= Width (mm)	H= Height (mm)	Weight (kg)	Fuel Tank Capacity (L)
Silent Type	3910	1332	2100	3030	758



LSY250E3-6 (Open type)					
Configuration	L= Length (mm)	W= Width (mm)	H= Height (mm)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	3050	1220	1900	2150	450





Junta Central Electoral
OFERTA TECNICA

ITEM 4, POR UNA (1) PLANTA ELECTRICA 20KW, POWERGO LSY22S

Referencia: JCE-CCC-LPN-2026-0004

Marca: Powergo.

Modelo: LSY22S.

Salida potencia nominal: 20kw

Frecuencia nominal: 60Hz.

Tablero multifuncional: Incluido

Modo de regulación AVR: Incluido.

Cantidad de fases: monofásica.

Voltaje: 120/240v.

Combustible: Diésel.

Tanque de combustible 100 gal: incluido.

Sistema refrigeración: Refrigerante líquido.

Arranque eléctrico: 12v.

Mantenedor de batería: incluido

Nivel de ruido: 70 decibeles.

Encapsulada (insonorizada): resistencia a la corrosión, pintada al horno con polvo de poliéster y con cerraduras.

Botón de paro de emergencia: incluido

Garantía: Uso standby 2 años o 2,000 horas lo que ocurra primero. Uso prime 1 año o 3,000 horas lo que ocurra primero.

Tiempo de entrega: 90 días luego de la formalización del contrato.

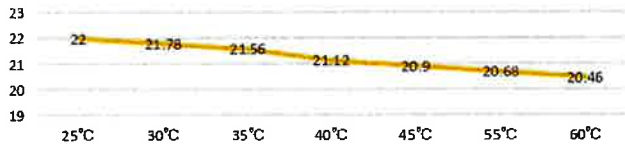
Nota: Todos los equipos serán entregados con manuales de operación y mantenimiento en idioma español, herramientas básicas de fábrica, y documentación completa de importación y nacionalización al día



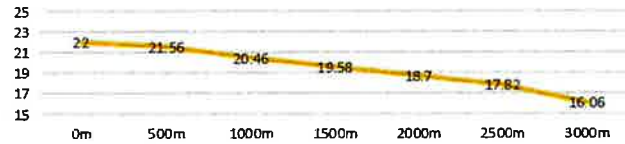


MODEL		LSY22S	
Power Pf.1.0	Standby	kVA	22
		kW	22
	Prime	kVA	20
		kW	20
	Frequency	Hz	50
	Voltage	V	230
Rated speed	rpm	1500	

Temperature (Celsius) Derate Curves
Unit: kVA



Altitude (meters) Derate Curves
Unit: kVA



Standard reference conditions

Standard reference condition 25°C (77°F) air inlet temp, 100m (328ft) A.S.L 30% relative humidity. Fuel consumption data with diesel fuel with specific gravity of 0.85 and conforming to BS 2869: 1998, Class A2.

POWERGO generator sets meet the standards of ISO9001, CE, BS5000, ISO 8528, ISO 3046, IEC 60034, NEMA MG-1.22.



Standard Features

- LEES Power provides one-source responsibility for the generating system and accessories.
- The generator set and its components are prototype-tested, factory-built, and production-tested.
- The generator set complies with ISO 8528-5, Class G3 requirements for transient performance.
- The generator set accepts rated load in one step.
- The 50Hz generator set engine is certified by the Environmental Protection Agency (EU or MEP) to conform to EU2- EU3 nonroad emissions regulations.(≤560KW)
- A one-year limited warranty covers all systems and components. Two-, five-, and ten-year extended warranties are also available.

Generator Features

- The brushless, rotating-field generator has broadrange reconnectability.
- The pilot-excited, permanent-magnet generator (PMG) provides superior short-circuit capability
- Controllers are available for all applications. See controller features inside.
- The low coolant level shutdown prevents overheating (standard on radiator models only)
- Integral vibration isolation eliminates the need for under-unit vibration spring isolators
- An electronic, isochronous governor delivers precise frequency regulation.
- Electronic engine controls and a generator microprocessor controller combine to deliver one of the most advanced control systems in today's generator market.

Engine Specifications

Engine Brand	YANGDONG
Engine Model	YND490D-FP228
Cylinder No.& Configuration	4 cylinder Diesel L type
Working Mode	Naturally Aspirated
Bore x Stroke	95x105mm
Displacement	2.977L
Compression Ratio	18
Rated Power	26kW
Rated Speed	1500
Lubrication System	Splash Lubrication
Lube Oil	Conforms above CD class or SAE10W-30,15W-40
Lube Oil Capacity	7.6L
Battery Capacity	6-QWLZ-45(380)*1
Fuel Type	Diesel:0#(Summer),-10#(Winter),-35#(Cold)
Fuel Consumption 25% load	3.69L/H
Fuel Consumption 50% load	5.27L/H
Fuel Consumption 75% load	6.15L/H
Fuel Consumption 100% load	6.87L/H



Alternator

Type	3-Pole, Rotating-Field
Exciter type	Brushless, Permanent-Magnet, Pilot Exciter
Voltage regulator	Solid-State, Volts/Hz
Insulation	Class H
Material	Synthetic, Nonhygroscopic
Temperature rise	Prime 130°C, 150°C Standby
Bearing: quantity, type	1, Sealed
Coupling	Flexible Disc
Amortisseur windings	Full
Rotor balancing	125% 60 Hz, 150% 50 Hz
Voltage regulation, no-load to full-load(with < 0.5% drift due to temp. variation)	Single-Phase Sensing, ±1%
One-step load acceptance	100% of Rating(ALTERNATOR)
Unbalanced load capability	100% of Rated Standby



- IEEE, and ANSI standards compliance for temperature rise and motor starting.
- Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds.
- Sustained short-circuit current enabling downstream circuit breakers to trip without collapsing the generator field.
- Self-ventilated and dripproof construction.
- Superior voltage waveform from two-thirds pitch windings and skewed stator.
- Digital solid-state.volts-per-hertz voltage regulator with ±1% no-load to full-load regulation.
- Brushless alternator with brushless pilot exciter for excellent load response.

Generating Sets Standard and Optional Features

- Engine**
- 4-stroke, water-cooled diesel engine
 - Standard air filter
 - Standard fuel filter
 - Standard oil filter
 - Oil temperature sensor
 - Low coolant level sensor
 - Radiator with blowing fan
 - Industrial silence
 - Fuel water separator
 - Water jacket heater (optional)



- Alternator**
- Class H insulation
 - IP23 Protection
 - Automatic Voltage Regulator (AVR)
 - Optional for small gensets
 - Single bearing alternator
 - Class F or class B temperature rise (optional)
 - Digital Voltage Regulator (optional)
 - Double bearing (optional)
 - Anti-Condensation Heater (optional)
 - IP41 Protection (optional)

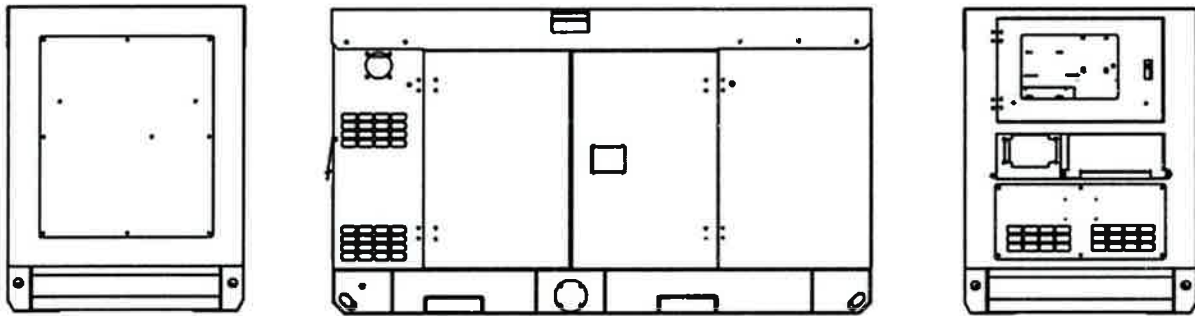
- Electrical system**
- Maintenance-free and anti-explosion battery
 - Standard breaker
 - ABB breaker (optional)
 - ATS (optional)
 - Battery charger (optional)
 - GMS monitoring (optional)

- Packing**
- Engine manual
 - Alternator manual
 - Gensets operation and maintenance manual
 - Tool kit

- Baseframe**
- Forklift pockets
 - Pulling slots
 - Earth wire protection
 - Built-in anti vibration mountings
 - Fuel outlet valve
 - Standard fuel tank
 - Enlarged fuel tank (optional)
 - Separated fuel tank (optional)

- Canopy**
- Weatherproof & sound-attenuated canopy
 - Sound-absorbing material
 - Lifting lug
 - Emergency stop button
 - Inside silencer

Overview Dimension & Weight



LSY22S (Silent type)					
Configuration	L = Length (mm)	W = Width (mm)	H = Height (mm)	Weight (kg)	Fuel Tank Capacity(L)
Silent type	1955	805	1050	730	/





**Junta Central Electoral
OFERTA TECNICA**

**ITEM 5, POR VEINTIDÓS (22) PLANTA ELECTRICA 60KW, POWERGO
LSY60S**

Referencia: JCE-CCC-LPN-2026-0004

Marca: Powergo.

Modelo: LSY60S.

Salida potencia nominal: 60kw

Frecuencia nominal: 60Hz.

Tablero multifuncional: Incluido

Modo de regulación AVR: Incluido.

Cantidad de fases: monofásica.

Voltaje: 120/240v.

Combustible: Diésel.

Tanque de combustible 100 gal: incluido.

Sistema refrigeración: Refrigerante líquido.

Arranque eléctrico: 12v.

Mantenedor de batería: incluido

Nivel de ruido: 70 decibeles.

Encapsulada (insonorizada): resistencia a la corrosión, pintada al horno con polvo de poliéster y con cerraduras.

Botón de paro de emergencia: incluido

Garantía: Uso standby 2 años o 2,000 horas lo que ocurra primero. Uso prime 1 año o 3,000 horas lo que ocurra primero.

Tiempo de entrega: 90 días luego de la formalización del contrato.

Nota: Todos los equipos serán entregados con manuales de operación y mantenimiento en idioma español, herramientas básicas de fábrica, y documentación completa de importación y nacionalización al día



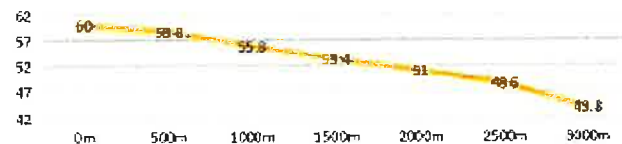


MODEL		LSY60S	
Power Pf.1.0	Standby	kVA	60
		kW	60
	Prime	kVA	54
		kW	54
	Frequency	Hz	50
	Voltage	V	230/400
Rated speed	rpm	1500	

Temperature (Celsius) Derate Curves
Unit: kVA



Altitude (meters) Derate Curves
Unit: kVA



Standard reference conditions

Standard reference condition 25°C (77°F) air inlet temp, 100m (328ft) A.S.L 30% relative humidity. Fuel consumption data with diesel fuel with specific gravity of 0.85 and conforming to BS 2869: 199B, Class A2.

POWERGO generator sets meet the standards of
ISO9001, CE, BS5000, ISO 8528, ISO 3046, IEC 60034, NEMA MG-1.22.



Standard Features

- LEES Power provides one-source responsibility for the generating system and accessories.
- The generator set and its components are prototype-tested, factory-built, and production-tested.
- The generator set complies with ISO 8528-5, Class G3 requirements for transient performance.
- The generator set accepts rated load in one step.
- The 50Hz generator set engine is certified by the Environmental Protection Agency (EU or MEP) to conform to EU2, EU3 nonroad emissions regulations.(≤560KW)
- A one-year limited warranty covers all systems and components. Two-, five-, and ten-year extended warranties are also available.

Generator Features

- The brushless, rotating-field generator has broadrange reconnectability.
- The pilot-excited, permanent-magnet generator (PMG) provides superior short-circuit capability
- Controllers are available for all applications. See controller features inside.
- The low coolant level shutdown prevents overheating (standard on radiator models only).
- Integral vibration isolation eliminates the need for under-unit vibration spring isolators.
- An electronic, isochronous governor delivers precise frequency regulation.
- Electronic engine controls and a generator microprocessor controller combine to deliver one of the most advanced control systems in today's generator market.

Engine Specifications

Engine Brand	YANGDONG
Engine Model	Y4105ZLD-C014
Cylinder No.& Configuration	4 cylinder Diesel L type
Working Mode	Inter cooler Turbo
Bore x Stroke	105x118mm
Displacement	4.087L
Compression Ratio	18
Rated Power	55kW
Rated Speed	1500
Lubrication System	Splash Lubrication
Lube Oil	Conforms above CD class or SAE10W-30,15W-40
Lube Oil Capacity	10.46L
Battery Capacity	6-QWLZ-60(500)L*2
Fuel Type	Diesel:0#(Summer),-10#(Winter),-35#(Cold)
Fuel Consumption 25% load	5.02L/H
Fuel Consumption 50% load	7.57L/H
Fuel Consumption 75% load	9.71L/H
Fuel Consumption 100% load	12.1L/H



ALTERNATOR

Type	4-Pole, Rotating-Field
Exciter type	Brushless, Permanent-Magnet, Pilot Exciter
Voltage regulator	Solid-State, Volts/Hz
Insulation	NEMA MG1, Class H
Material	Synthetic, Nonhygroscopic
Temperature rise	Prime 130°C, 150°C Standby
Bearing: quantity, type	1, Sealed
Coupling	Flexible Disc
Amortisseur windings	Full
Rotor balancing	125% 60 Hz, 150% 50 Hz
Voltage regulation, no-load to full-load(with < 0.5% drift due to temp. variation	3-Phase Sensing, ±0.25%
One-step load acceptance	100% of Rating(ALTERNATOR)
Unbalanced load capability	100% of Rated Standby



- NEMA MG1, IEEE, and ANSI standards compliance for temperature rise and motor starting.
- Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds.
- Sustained short-circuit current enabling downstream circuit breakers to trip without collapsing the generator field.
- Self-ventilated and dripproof construction.
- Superior voltage waveform from two-thirds pitch windings and skewed stator.
- Digital solid-state.volts-per-hertz voltage regulator with ±0.25% no-load to full-load regulation.
- Brushless alternator with brushless pilot exciter for excellent load response.

Generating Sets Standard and Optional Features

Engine

- 4-stroke, water-cooled diesel engine
- Standard air filter
- Standard fuel filter
- Standard oil filter
- Oil temperature sensor
- Low coolant level sensor
- Radiator with blowing fan
- Industrial silence
- Fuel water separator
- Water jacket heater (optional)



Alternator

- Class H insulation
- IP23 Protection
- Automatic Voltage Regulator (AVR)
- PMG excitation (optional)
- Single bearing alternator
- Class F or class B temperature rise (optional)
- Digital Voltage Regulator (optional)
- Double bearing (optional)
- Anti-Condensation Heater (optional)
- IP41 Protection (optional)

Electrical system

- Maintenance-free and anti-explosion battery
- Standard breaker
- ABB breaker (optional)
- ATS (optional)
- Battery charger (optional)
- GMS monitoring (optional)

Packing

- Engine manual
- Alternator manual
- Gensets operation and maintenance manual
- Tool kit

Baseframe

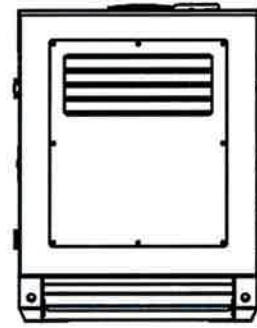
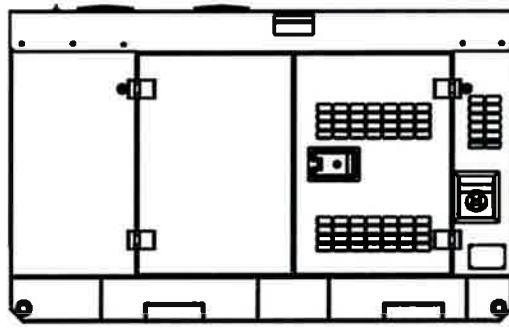
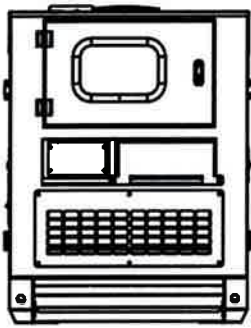
- Forklift pockets
- Pulling slots
- Earth wire protection
- Built-in anti vibration mountings
- Fuel outlet valve
- Standard fuel tank
- Enlarged fuel tank (optional)
- Separated fuel tank (optional)

Canopy

- Weatherproof & sound-attenuated canopy
- Sound-absorbing material
- Lifting lug
- Emergency stop button
- Inside silencer



Overview Dimension Weight



LSY60S3 (Silent type)					
Configuration	L = Length (mm)	W = Width (mm)	H = Height (mm)	Weight (kg)	Fuel Tank Capacity(L)
Silent type	2460	1006	1255	1180	/

Controller

Key Features

- Using microprocessor as a core, graphics LCD with big screen and backlight, key touch for operation
- Have a RS485 port, can be used for communicate to PC
- All parameters can be set from the front panel, or be set by PC used SG72
- Security password-protected programming levels
- All parameters use digital modulation, with higher reliability and stability
- Built-in speed/frequency detecting units can accurately judge the states such as crank success and over speed
- Power supply range is wide, accommodating to different starting battery voltage environment
- Built-in watch dog can never be dead halt, ensuring smooth program execution
- Modular configuration design, inserted type connection terminals, flush type installation, compact structure, easy installation



Protection

- High engine temperature
- Low oil pressure
- Over speed
- Under speed
- Loss of speed signal
- Generator over frequency
- Generator under frequency
- Generator over voltage
- Generator under voltage
- Generator over current
- Fail to start
- Auxiliary inputs

Precision measure and display of

- Mains voltage
- Mains frequency
- Mains current
- Generator voltage
- Generator current
- Generator frequency
- Generator active power (kW)
- Generator inactive power (kW)
- Generator apparent power (kVA)
- Generator power factor
- Generator starts count
- Generator hour count
- Cumulate electric energy (kWh)
- Generator temperature
- Generator pressure
- Generator fuel level
- Start battery voltage



**Junta Central Electoral
OFERTA TECNICA**

ITEM 6, POR UNA (1) PLANTA ELECTRICA 60KW, POWERGO LSY76S

Referencia: JCE-CCC-LPN-2026-0004

Marca: Powergo.

Modelo: LSY76S.

Salida potencia nominal: 60.4kw

Frecuencia nominal: 60Hz.

Tablero multifuncional: Incluido

Factor de potencia: 0.8 (75.5kva)

Modo de regulación AVR: Incluido.

Cantidad de fases: Trifásica.

Voltaje: 120/208v.

Combustible: Diésel.

Tanque de combustible 100 gal: incluido.

Sistema refrigeración: Refrigerante líquido.

Arranque eléctrico: 12v.

Mantenedor de batería: incluido

Nivel de ruido: 70 decibeles.

Encapsulada (insonorizada): resistencia a la corrosión, pintada al horno con polvo de poliéster y con cerraduras.

Botón de paro de emergencia: incluido

Garantía: Uso standby 2 años o 2,000 horas lo que ocurra primero. Uso prime 1 año o 3,000 horas lo que ocurra primero.

Tiempo de entrega: 90 días luego de la formalización del contrato.

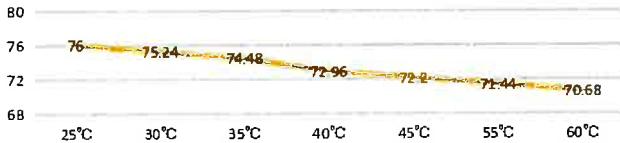
Nota: Todos los equipos serán entregados con manuales de operación y mantenimiento en idioma español, herramientas básicas de fábrica, y documentación completa de importación y nacionalización al día.



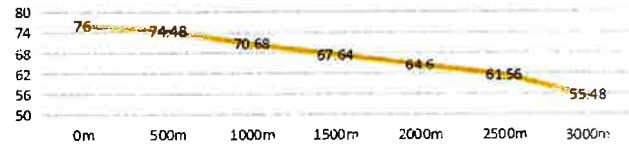


MODEL		LSY76S	
Power Pf.1.0	Standby	kVA	75.5
		kW	60.4
	Prime	kVA	68.6
		kW	54.9
	Frequency	Hz	60
	Voltage	V	208/120; 220/127; 416/240; 440/254; 480/277
Rated speed	rpm	1800	

Temperature (Leisius) Derate Curves
Unit: kVA



Altitude (meters) Derate Curves
Unit: kVA



Standard reference conditions

Standard reference condition 25°C (77°F) air inlet temp, 100m (328ft) A.S.L 30% relative humidity. Fuel consumption data with diesel fuel with specific gravity of 0.85 and conforming to BS 2869: 1998, Class A2.

POWERGO generator sets meet the standards of
ISO9001, CE, BS5000, ISO 8528, ISO 3046, IEC 60034, NEMA MG-1.22.



Standard Features

- LEES Power provides one-source responsibility for the generating system and accessories.
- The generator set and its components are prototype-tested, factory-built, and production-tested.
- The generator set complies with ISO 8528-5, Class G3 requirements for transient performance.
- The generator set accepts rated load in one step.
- The 60Hz generator set engine is certified by the Environmental Protection Agency (EU or MEP) to conform to EU2, EU3 nonroad emissions regulations.(≤560KW)
- A one-year limited warranty covers all systems and components. Two-, five-, and ten-year extended warranties are also available.

Generator Features

- The brushless, rotating-field generator has broadrange reconnectability.
- The pilot-excited, permanent-magnet generator (PMG) provides superior short-circuit capability
- Controllers are available for all applications. See controller features inside.
- The low coolant level shutdown prevents overheating (standard on radiator models only).
- Integral vibration isolation eliminates the need for under-unit vibration spring isolators.
- An electronic, isochronous governor delivers precise frequency regulation.
- Electronic engine controls and a generator microprocessor controller combine to deliver one of the most advanced control systems in today's generator market.



Engine Specifications

Engine Brand	LEES
Engine Model	YD4EZLD
Cylinder No.& Configuration	4 cylinder Diesel L type
Working Mode	Inter cooler Turbo
Bore x Stroke	105x118mm
Displacement	4.087L
Compression Ratio	18
Rated Power	70kW
Rated Speed	1800
Lubrication System	Splash Lubrication
Lube Oil	Conforms above CD class or SAE10W-30,15W-40
Lube Oil Capacity	13L
Battery Capacity	6-QW-60(580)*2
Fuel Type	Diesel:0#(Summer),-10#(Winter),-35#(Cold)
Fuel Consumption 25% load	6.71L/H
Fuel Consumption 50% load	10.68L/H
Fuel Consumption 75% load	14.92L/H
Fuel Consumption 100% load	18.78L/H



ALTERNATOR

Type	4-Pole, Rotating-Field
Exciter type	Brushless, Permanent-Magnet, Pilot Exciter
Voltage regulator	Solid-State, Volts/Hz
Insulation	NEMA MG1, Class H
Material	Synthetic, Nonhygroscopic
Temperature rise	Prime 130°C, 150°C Standby
Bearing: quantity, type	1, Sealed
Coupling	Flexible Disc
Amortisseur windings	Full
Rotor balancing	125% 60 Hz, 150% 50 Hz
Voltage regulation, no-load to full-load(with < 0.5% drift due to temp. variation)	3-Phase Sensing, ±0.25%
One-step load acceptance	100% of Rating(ALTERNATOR)
Unbalanced load capability	100% of Rated Standby



- NEMA MG1, IEEE, and ANSI standards compliance for temperature rise and motor starting.
- Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds.
- Sustained short-circuit current enabling downstream circuit breakers to trip without collapsing the generator field.
- Self-ventilated and dripproof construction.
- Superior voltage waveform from two-thirds pitch windings and skewed stator.
- Digital solid-state.volts-per-hertz voltage regulator with ±0.25% no-load to full-load regulation.
- Brushless alternator with brushless pilot exciter for excellent load response.

Controller

Key Features

- Using microprocessor as a core, graphics LCD with big screen and backlight, key touch for operation
- Have a RS485 port, can be used for communicate to PC
- All parameters can be set from the front panel, or be set by PC used SG72
- Security password-protected programming levels
- All parameters use digital modulation, with higher reliability and stability
- Built-in speed/frequency detecting units can accurately judge the states such as crank success and over speed
- Power supply range is wide, accommodating to different starting battery voltage environment
- Built-in watch dog can never be dead halt, ensuring smooth program execution
- Modular configuration design, inserted type connection terminals, flush type installation, compact structure, easy installation



Protection

- High engine temperature
- Low oil pressure
- Over speed
- Under speed
- Loss of speed signal
- Generator over frequency
- Generator under frequency
- Generator over voltage
- Generator under voltage
- Generator over current
- Fail to start
- Auxiliary inputs

Precision measure and display of

- Mains voltage
- Mains frequency
- Mains current
- Generator voltage
- Generator current
- Generator frequency
- Generator active power (kW)
- Generator inactive power (kW)
- Generator apparent power (kVA)
- Generator power factor
- Generator starts count
- Generator hour count
- Cumulate electric energy (kWh)
- Generator temperature
- Generator pressure
- Generator fuel level
- Start battery voltage

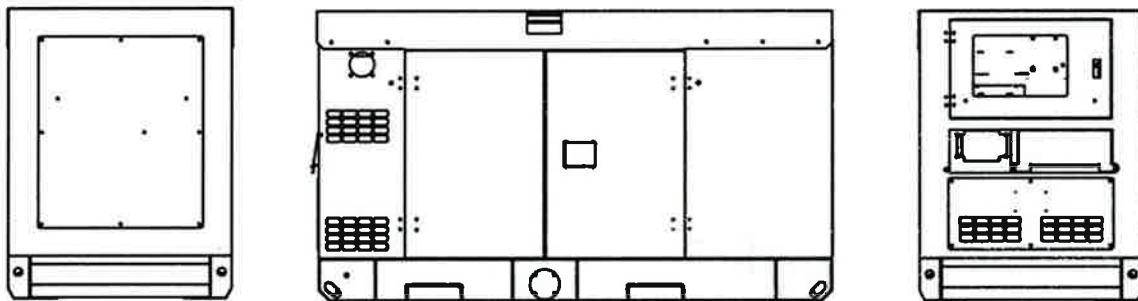
Generating Sets Standard and Optional Features

<p>Engine</p>	<ul style="list-style-type: none"> • 4-stroke, water-cooled diesel engine • Standard air filter • Standard fuel filter • Standard oil filter • Oil temperature sensor • Low coolant level sensor • Radiator with blowing fan • Industrial silence • Fuel water separator • Water jacket heater (optional)
<p>Alternator</p>	<ul style="list-style-type: none"> • Class H insulation • IP23 Protection • Automatic Voltage Regulator (AVR) • PMG excitation (optional) • Single bearing alternator • Class F or class B temperature rise (optional) • Digital Voltage Regulator (optional) • Double bearing (optional) • Anti-Condensation Heater (optional) • IP41 Protection (optional)
<p>Electrical system</p>	<ul style="list-style-type: none"> • Maintenance-free and anti-explosion battery • Standard breaker • ABB breaker (optional) • ATS (optional) • Battery charger (optional) • GMS monitoring (optional)
<p>Packing</p>	<ul style="list-style-type: none"> • Engine manual • Alternator manual • Gensets operation and maintenance manual • Tool kit
<p>Baseframe</p>	<ul style="list-style-type: none"> • Forklift pockets • Pulling slots • Earth wire protection • Built-in anti vibration mountings • Fuel outlet valve • Standard fuel tank • Enlarged fuel tank (optional) • Separated fuel tank (optional)
<p>Canopy</p>	<ul style="list-style-type: none"> • Weatherproof & sound-attened canopy • Sound-absorbing material • Lifting lug • Emergency stop button • Inside silencer





Overview Dimension & Weight



LSY76S3-6 (Silent type)					
Configuration	L= Length (mm)	W= Width (mm)	H= Height (mm)	Weight (kg)	Fuel Tank Capacity(L)
Silent Type	2460	1006	1257	1170	140