POWERLINK
Power Systems

Your Partner for Power...

EC SERIES

22-1500 kVA

SOUNDPROOF
DIESEL GENERATING SETS

NOISE LEVEL: 62-76dBA@7m

POWERLINK
Power Systems
www.powerlinkworld.com

PowerLink reserves the right to make changes in model,
technical sepcification, color, configuration and accessories without prior notice.
Please contact the salesman before ordering.

EC Series / August.2011, NO.6220033

Strong Power, **Stable Performance**

ENGINES AND ALTERNATORS

Excellent engines and alternators featured with strong power, high torque, quick start, easy maintenance and operation.

COMPACT STRUCTURE

Compact structure, small size, and longer service life.

HIGH QUALITY STEEL AND PAINT PROCESS

The canopies are made of high quality steel and powder coated. The paint is highly endurable against erosion and scratch, and strongly rustproof.

ADVANCED WATERPROOF AND DUSTPROOF DESIGN

The control panel, service doors and canopy board adopt waterproof design and effectively stop rain and dust intrusion.

EXCELLENT ANTI-VIBRATION DEVICES

- Anti-vibration mountings between the engines, alternators and the base significantly reduce the vibrations during operation, ensuring stable operation.
- All movable devices are fixed firmly, and therefore help reduce vibration.

Enhanced Safety

ACCORDING TO GB/T 2820-97 AND CE SAFETY STANDARDS.

INFORMATION SAFETY

The machines are equipped with monitoring system, helping monitor the operation at real time. We provide DSE-7320 control module for your option, See the description bellow for more details.

ELECTRIC SAFETY

- The double protection for the cable connection panel lowers the probability of leakage caused by unintended touch or rain falling.
- Three-dimensional CABLING design for all the generator cables, providing reasonable, accurate and perfect protection.
- Automatic turn-on circuit breaker with undervoltage protection system inside maximally avoids human misoperation.
- Automatic control module for multi-directional monitoring meets multilevel demands and considerate protection of or for customers.

OPERATION SAFETY

- The radiator and high-voltage parts are guarded to avoid accidents caused by touch.
- The control panel is lockable. Current changeover switch, voltage regulator and circuit breakers are installed behind the door.
- Anti-vibration rubbers are installed in the two sides of the doors to avoid damage to the machines when open the doors.
- Lockable fuel filling cap.

Environmental

The noise level can be reduced by 15-35dB(A) through multiple noise control devices, which enables quiet operation and has no effect on daily life. This feature makes our diesel generators ideal for use at night, in residence, office and other environments sensitive to noise.

Cleaner exhaust, less effect on the environment, even in outdoor application.

Super Quiet, Superior Life!

POWERFUL ENGINES

- Adopts world-famous engines , with low noise and low emission.
- Rigid structure ensures lowest vibration.
- Common rail system: (for some models) significantly lowers the combustion temperature, and also leads to cleaner exhaust.
- For the turbocharged machines, the carbon dioxide (CO_2) emission is reduced.

EXCELLENT SILENCERS

Silencer and muffler pipe system dramatically reduce the noise during operation, and therefore cause less effect on daily life.

HIGH QUALITY SOUND ABSORBING MATERIAL

The interior is lined with new type fire retardant and sound absorbing cotton, and the door is airproof with rubber specific for car doors use only, which helps absorb massive noise and heat during the operation.

FULLY-CLOSED NOISE REDUCTION

Besides applying airproof rubber around the doors, the concept of noise reduction has also been fully integrated into the inlet/outlet and other aspects.

Easy to Operate

CONTROL SYSTEM

- Micro-processor cored digital system.
- Multiple languages for option, automatic control.
- Connected with the mains through ATS, which can help realize automatic transfer between the mains and the generators. Also, multiple generators can be paralleled for bigger power need.

CONVENIENT REFUELING AND WATERING INSTALLATIONS

- Outer filling fuel port.
- 8-12 hours base fuel tank in soundproof generator sets prevent against leakage and fuel spray when cleaning the interior. The fuel tank abides by European environment protection standards
- Drainage outlet.
- Water feeder is located on top of the canopy;

HUMANIZED DESIGN

- The oil drainage pump is located in the side door for easy operation.
- New type waterproof door lock is easy to lock and open.
- Clear labeling in visible positions, providing adequate information, safety presentation and convenience for operators. The labels are made of advance materials, featured with excellent high-temperature resistance, rainproof and weatherproof performance.

CONVENIENT CONNECTION

- Terminal connection lugs (L1, L2, L3, and LN) make connection and wiring more simple and well-ordered.
- Emergency stop provides convenient operation in emergent situation and when servicing.

EASY TO MAINTAIN

- The daily maintenance work can be performed on both sides of the machine, and wide door allows you easily get in touch with the machine.
- An integral waste drainage outlet located at the bottom of the machine makes easier regular maintenance.
- For generators above 300kVA, a ladder for climbing is equipped. It makes easier to check and service.

EASY TO TRANSPORT

- The machines below 500kVA have holes for forklift and dragging in the base for easy transport.
- Lifting eyes located on top of the canopy make easier move by cranes.

Control System

Digital, intelligent control system allows easier operation.

PLC-7320

Powerlink PLC-7320 generator controllers integrating digital, intelligent and network techniques are used for automatic control system of diesel generator. It can carry out functions including automatic start/stop, data measure and alarming.

Upon detection of a mains (utility) failure the module automatically starts the generating set. Once the mains (utility) power has been restored it instructs the generating set to stop.

FEATURES

- Microprocessor control, with high stability and credibility .
- Mains supply and generator operation monitoring.
- Indicating operation status and fault conditions.
- Multiple protections; multiple parameters display, such as pressure, temperature.
- Manual and automatic work mode selectable.
- Real time clock for time and date display, overall runtime display, 99 log entries.
- Overall power output display.
- Integral speed/frequency detecting, telling status of start, rated operation, overspeed.
- Communication with PC via RS485 or RS232 interface, using MODBUS protocol.
- Engine ECU is available.
- Common USB cable is usable for parameter configuration.
- Multi-language is available. It can be translated for only one time and imported in forever. The idiom can also be changed after translation, eg. "Failure" to be "Malfunction".

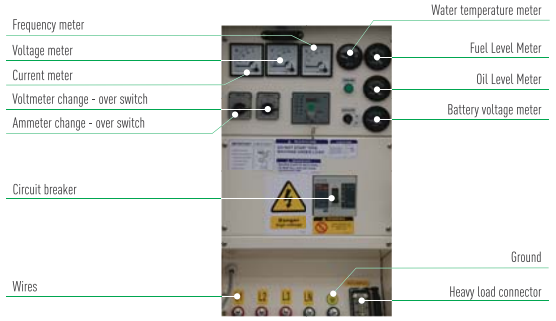
PLC-702HC

The PLC-702HC Key Manual Start Module is a Manual Engine Control Module designed to control the engine via the key switch and pushbuttons on the front panel. The module is used to start and stop the engine and indicated fault conditions, automatically shutting down the engine and indicating the engine failure by LED, giving true or fault annunciation.

STANDARD CONTROL FUNCTION

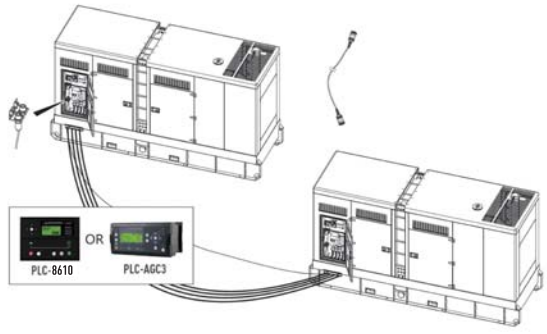
- Manual Engine Control Module
- Wide DC Input Range
- Protection and Indication of Low Oil Pressure, High Engine Temperature and Overspeed
- Charging Failure Warning without Stop
- Auxiliary Shutdown
- Speed Indication Transferred from Frequency
- Warning Display LED
- Run-hour Timer
- Built-in Frequency Toggle Switch (50/60Hz)
- Indication of Fuel, Start-up, Preheating and Shutdown

DESCRIPTION FOR MODULE



Available for the paralleled control moduels (PLC-AGC3 and PLC-8610 optional)

The methods are as follows:



Specification of control panels

		MODEL	PLC-702HC	PLC-7320	PLC-8610	PLC-AGC3
General accessory		AVR	●	●	●	●
		Electronic Governing	×	×	●	●
		Glow plug control	●	●	●	●
		Cycle Cranking	●	●	●	●
		(MODBUS) Networking	×	●	●	●
		Fault History	×	●	●	●
Operator Interface		manual start/stop	●	●	●	●
		Auto/remote start	●	●	●	●
		Regular Test	×	●	●	●
		Auto operation LED	×	●	●	●
		Manual operation LED	×	●	●	●
		Common Shutdown LED	●	●	●	●
		Common warning LED	●	●	●	●
		Fail to start LED	●	●	●	●
		Emergency stop(local)	●	●	●	●
		Alphanumeric screen	●	●	●	●
		Remote start input active LED	×	●	●	●
		Fault reset	●	●	●	●
Measurement and Instrumentation	Engine	oil pressure	●	●	●	●
		Water Temperture	●	●	●	●
		Engine Speed	●	●	●	●
		Hours Run	●	●	●	●
		Number of Starts	●	●	●	●
		Battery Voltage	●	●	●	●
		Exhaust Coolant Temperature	○	●	●	●
	Alternator	3Phase(L-L Voltage&Frequency	●	●	●	●
		3phase Current	●	●	●	●
		Frequency	●	●	●	●
		kWh	×	●	●	●
		Apparent Power	×	●	●	●
		Active Power and Inactive Power	×	●	●	●
		Power Factor	×	●	●	●
		Per PhaseKVA,KW	×	●	●	●
		Per Phase Kva	×	●	●	●
		Phase Voltage	○	●	●	●
		Output Power	×	●	●	●
	Mains Expression	Grid Wire Voltage	×	●	●	●
		Grid Phase Voltage	×	●	●	●
		Grid Frequency	×	●	●	●
Shutdown Protection and Indication	Engine	Low Fuel Level	×	●	●	●
		High Fuel Level	×	○	○	○
		Low Oil Pressure	●	●	●	●
		High Water Temperature	●	●	●	●
		Failure to Stop	×	●	●	●
		Failure to Start	●	●	●	●
		Controlable start circles/times	×	●	●	●
		Overspeed	●	●	●	●
	Alternator	Under&Over Voltage	×	●	●	●
		Under&Over Frequency	×	●	●	●
		Overcurrent	×	●	●	●
		Earth Leakage	○	○	○	○
		Reverse Power	×	×	●	●
		Reverse Var	×	×	●	●
Threshold Warning&Indication		Low Oil Pressure	●	●	●	●
		Low Water Temperature	×	○	○	○
		High Water Temperature	●	●	●	●
		Low Water Level	×	●	●	●
		Low/High Battery Voltage	×	●	●	●
		Failure to Charge	●	●	●	●
		Overcurrent	×	●	●	●
		Overload	×	●	●	●
		Genset under/over Voltage	×	●	●	●
		Genset under/over Power	×	●	●	●
		under/over Speed	×	●	●	●
		High Engine Temperature	●	●	●	●
		Earth Leakage	×	●	●	●
Paralleling Capability		Synchroscope(Independent Wire)	×	×	●	●
		Active and Inactive Power Transfer Function	×	×	●	●
		Synchroscope(Shared Wire)	×	×	●	●
		Synchronization Dector	×	×	●	●
		Peak Lopping	×	×	○	○
Power Transfer Function		Automatic Transfer	○	●	●	●
		Hard Closed Transition	●	●	●	●
		Soft Closed Transition	×	×	●	●
		Gen/Mains Breaker	×	●	×	●
		Gen/Mains Breaker Status Protaction	×	●	×	○
		Speed/Voltage Control	×	×	●	●
		Power Indication	×	●	●	●
		Fuel&solenoid valve Control	●	●	●	●
		Starter Control	●	●	●	●
		Preheating	○	○	○	○
		Mains Transfer Switch (Standard)	×	●	●	●
		Mains Transfer Switch (Emergency)	×	●	●	●
Environment		Ambient temperature (-40℃-70℃)	●	●	●	●
		Ambient humidity (-25℃-45℃)	●	●	●	●
		Humidity<=80%	●	●	●	●
Monitoring Function		Grid Over/Under Voltage Control	×	●	●	●
		Grid Over/Under Frequency Control	×	●	●	●
		Controller Input/ Output(Warning/No-Load)	×	●	●	●
		Optional Elerical Appliances Output	×	●	●	●
		Telegram Distance Control with all functions	×	●	●	●
		Engine Instrument Monitoring	×	●	●	●
		Alternator Output Instrument Monitoring	×	●	●	●
		Connection Point with all-round Setting for 8 Users	×	●	●	●
		4Users input Connection Point	×	●	●	●
		Led Light Control of Low Light Operation Environment	×	●	●	●
		Safe PIN Code	×	●	●	●
		Interface RS232/485	×	●	●	●
		Control Panel with all-function Button including Language Selection	×	●	●	●
		Multi-Language Function	×	●	●	●

● Standard ○ Optional × Impossible

Specification and Configuration

3-PH/1-PH 50Hz 1500RPM

Genset Model		GMS22CS	GMS30CS	GMS42CS	GMS60CS	GMS80CS	GMS100CS	GMS100CS	GMS130CS	GMS175CS	GMS200CS	GMS250CLS	GMS250CS	GMS312CS	GMS350CS	GMS350CS	GMS375CS	GMS450CS
Specification																		
Prime Power (kVA/kW)		23/18	30/24	43/34	60/48	80/64	100/80	100/80	130/104	175/140	200/160	250/200	250/200	312/250	350/280	350/280	375/300	N/A
Standby Power (kVA/kW)		27/21.5	32/25.8	45/36	61/48.8	88/70	100/80	100/80	145/116	187/149.6	212/169.6	265/212	265/212	345/276	370/296	370/296	390/312	450/360
Phases		3PH	3PH	3PH	3PH	3PH	3PH	3PH	3PH	3PH	3PH	3PH	3PH	3PH	3PH	3PH	3PH	3PH
Dimension & Weight	Length (mm)	2338	2338	2688	2688	3162	3038	3162	3312	3442	3592	3662	4242	4250	4242	4242	4250	4250
	Width (mm)	1100	1100	1100	1100	1172	1197	1150	1150	2015	1845	1965	1400	1470	1442	1400	1470	1470
	Height (mm)	1560	1560	1708	1708	1971	1797	1971	1831	1342	1342	1342	2269	2310	2312	2286	2310	2310
	Weight (kg)	1200	1226	1413	1547	2120	1994	2134	2126	2733	2693	2875	4554	4607	4587	4940	4746	4688
	Fuel Tank Capacity (L)	240	240	280	280	530	299	540	300	910	470	470	661	800	880	826	800	900
Engine	Engine Model	4B3.9-G1	4B3.9-G1	4BT3.9-G1	4BTA3.9-G2	6BTI5.9-G1	6BTI5.9-G1	6BTI5.9-G2	6BTAA5.9-G2	6CTA8.3-G2	6CTAA8.3-G2	6LTAA8.9-G2	NT855-GA	NTA855-G1B	NTA855-G2A	NTA855-G4	NTAA855-G7	NTAA855-G7A
	NO.of Cylinders	4L	4L	4L	4L	6L	6L	6L	6L	6L	6L	6L	6L	6L	6L	6L	6L	6L
	Governor	M	M	M	E	M	M	M	E	E	E	E	E	E	E	E	E	E
	Aspiration	NA	NA	TC	TW	TC	TC	TC	TCA	TW	TCA	TW	TCA	TCA	TCA	TCA	TCA	TCA
	Displacement (L)	3.9	3.9	3.9	3.9	5.9	5.9	5.9	5.9	8.3	8.3	8.9	14	14	14	14	14	14
Alternator Model		PI144E	PI144G	PI144K	UCI224E	UCI224G	UCI274C	UCI274C	UCI274E	UCI274G	UCI274H	UCI274K	UCI274K	HCI444ES	HCI444E	HCI444E	HCI444FS	HCI544C
Cons 100% (L/h)		6.7	6.7	9.3	13.1	22	22	22	27	40	45.4	53	53	68	72	75	86	108
Noise Level	dBA@1m	70.7	70.8	71.8	72.1	73.2	73.4	74.5	74.7	74.9	75.2	76.5	77.7	78.2	79.4	80.3	80.6	81.5
	dBA@7m	61.5	61.9	62.2	62.4	62.8	63.1	63.6	63.9	64.1	64.4	65.3	66.8	68.9	69.2	70.6	70.9	71.5
Qty of Doors (doors of control systems not included)		2	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Configuration																		
Engine	4 stroke water-cooled Diesel engine	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Industrial Silencer	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Switch in the Negative Pole	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Oil Sump Pump	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Water Jacket Preheater 220/240V	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Oil Preheater	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Standard Air Filter	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Alternator	PMG	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Anti-condensing Heater	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Winding Temperature Measuring Instrument	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	IP23 Single Bearing,Class H insulation	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Alternator Preheater	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	AVR	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cooling Systems	Radiator for 45°C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Coolant Integrated with genset	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Shelter of Water Tank	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Starting Systems	Start-up and Charging	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Starting Batteries with cables and bracket	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Batteries with Cables and Switch	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Control Systems	PLC-702HC	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	PLC-7320	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	PLC-8610	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
	PLC-A6C3	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
	Battery Charger	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Fuel Systems	Automatic Refueling	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
	Breather Valve	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Fuel Level Sensor	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Fuel T-valves	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Canopy and Soundproof Configuration	Outside Refueling	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Outside Watering	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Rainhat of Hush Pipe	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Lifting Lugs	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Ladders	×	×	×	×	×	×	×	×	×	×	×	•	•	•	•	•	•
	Shock Absorbers	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Emergency stop button Outlaid	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Control Cabinet with windows and doors	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	No-skid Floor	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
	Air Inlet	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Air Outlet	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	silencer	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Fire extinguisher	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
	Emergency Light	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Bases	Base Fuel Tank	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Holes for Forklift	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Pulling slots	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Wiring hole	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Earthed Protection	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Drain Outlet	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Materials with Gensets	Parts Manual	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Operation manual	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Warranty manual	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Records notebook of Maintenance	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Circuit Diagram	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

● Standard ○ Optional × Impossible

Genset Model		GMS450CS	GMS500CS	GMS575GS	GMS650CS	GMS650CS	GMS750CS	GMS800CS	GMS900CS	GM1000CS	GMS1250CS	GMS1250CS	GMS1400CS	GMS1500CS	PC22S	PC30S	PC42S	PC60S
Specification																		
Prime Power (kVA/kW)		450/360	500/400	575/460	N/A	650/520	750/600	800/640	900/720	1000/800	N/A	1250/1000	1400/1120	1500/1200	24/19.2	30/24	43/34	60/48
Standby Power (kVA/kW)		500/400	575/460	640/512	650/520	710/568	775/620	825/660	938/750	1030/824	1250/1000	1288/1030	1460/1168	1615/1292	27/21.5	32/25.8	45/36	61/48.8
		3PH	3PH	3PH	3PH	3PH	3PH	3PH	3PH	3PH	3PH	3PH	3PH	3PH	1PH	1PH	1PH	1PH
Dimension & Weight	Length (mm)	4512	4512	4792	4592	4512	6058	6058	6058	6058	6058	6058	6058	6058	2338	2688	2688	2688
	Width (mm)	1500	1500	1950	1950	1500	2438	2438	2438	2438	2438	2438	2438	2438	1080	1081	1100	1100
	Height (mm)	2559	2560	2546	2546	2560	2730	2730	2725	2790	2830	2795	2795	2795	1560	1710	1708	1757
	Weight (kg)	6104	6215	7392	7392	6088	12100	12120	12120	12460	15308	15310	15310	15310	1198	1457	1422	1570
	Fuel Tank Capacity (L)	1016	1016	945	945	970	1150	1150	1150	1150	1500	1500	1500	1500	190	240	280	360
Engine	Engine Model	K19A19-G3	K19A19-G4	K19A19-G6	K19A19-G8	QSKTA19-G3 NR2	K19A38-G2	K19A38-G2B	K19A38-G2A	K19A38-G5	K19A38-G9	K19A56-G3	K19A56-G8	K19A56-GS8	4B3.9-G1	4B3.9-G1	4BT3.9-G1	4BTA3.9-G2
	NO.of Cylinders	6L	6L	6L	6L	6L	12V	12V	12V	12V	16V	16V	16V	16V	4L	4L	4L	4L
	Governor	E	E	E	E	E	E	E	E	E	E	E	E	E	M	M	M	E
	Aspiration	TCA	TCA	TCA	TCA	TCA	TCA	TCA	TCA	TCA	TCA	TCA	TCA	TCA	NA	NA	TC	TW
	(L)	18.9	18.9	18.9	19	19	37.8	37.8	37.8	37.8	38	50	50	50	3.9	3.9	3.9	3.9
Alternator Model		HCI544C	HCI644D	HCI544E	HCI644FS	HCI644F	LVI634B	LVI634C	LVI634D	LVI634E	LVI634G	LVI634G	PI734B	PI734C	PI144H	PI144K	UCI224E	UCI274C
Cons 100% (L/h)		97	107	118.5	128	136	167	172	191	209	254	254	289	301	6.7	6.7	9.3	13.1
Noise Level	dBA@1m	82.4	82.8	83	83.3	83.8	84.2	84.4	84.6	84.7	85.2	85.6	85.9	86.3	70.7	70.8	71.8	72.1
	dBA@7m	72.5	72.9	73	73.2	73.4	73.7	73.9	74.1	74.2	75.1	75.7	75.8	76.4	61.5	61.9	62.2	62.4
Qty of Doors (doors of control systems not included)		4	4	4	4	4	2	2	2	2	4	4	2	2	2	4	4	4
Configuration																		
Engine	4 stroke water-cooled Diesel engine	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Industrial Silencer	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Switch in the Negative Pole	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Oil Sump Pump	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Water Jacket Preheater 220/240V	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Oil Preheater	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Standard Air Filter	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Alternator	PMG	○	○	○	○	○	•	•	•	•	•	•	•	•	○	○	○	○
	Anti-condensing Heater	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Winding Temperature Measuring Instrument	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	IP23 Single Bearing,Class H insulation	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Alternator Preheater	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	AVR	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cooling Systems	Radiator for 45°C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Coolant Integrated with genset	•	•	•	•	•	•	×	×	×	×	×	×	×	•	•	•	•
	Shelter of Water Tank	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Starting Systems	Start-up and Charging	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Starting Batteries with cables and bracket	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Batteries with Cables and Switch	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Control Systems	PLC-702HC	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	PLC-7320	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	PLC-8610	×	○	○	○	○	○	○	○	○	○	○	○	○	×	×	×	×
	PLC-A6C3	×	○	○	○	○	○	○	○	○	○	○	○	○	×	×	×	×
	Battery Charger	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Fuel Systems	Automatic Refueling	×	×	×	×	×	•	•	•	•	•	•	•	•	×	×	×	×
	Breather Valve	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Fuel Level Sensor	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Fuel T-valves	○	○	○	○	○	•	•	•	•	•	•	•	○	○	○	○	○
Canopy and Soundproof Configuration	Outside Refueling	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Outside Watering	•	•	•	•	•	•	×	×	×	×	×	×	×	•	•	•	•
	Rainhat of Hush Pipe	•	•	•	•	•	•	•	•	×	•	×	×	×	•	•	•	•
	Lifting Lugs	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Ladders	•	•	•	•	•	•	•	•	•	•	•	•	•	×	×	×	×
	Shock Absorbers	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Emergency stop button Outlaid	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Control Cabinet with windows and doors	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	No-skid Floor	×	×	×	×	×	•	•	•	•	•	•	•	•	×	×	×	×
	Air Inlet	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Air Outlet	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	silencer	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Fire extinguisher	×	×	×	×	×	•	•	•	•	•	•	•	•	×	×	×	×
	Emergency Light	×	×	×	×	×	•	•	•	•	•	•	•	•	×	×	×	×
Bases	Base Fuel Tank	•	•	•	•	•	×	×	×	×	×	×	×	×	•	•	•	•
	Holes for Forklift	•	•	•	•	•	×	×	×	×	×	×	×	×	•	•	•	•
	Pulling slots	•	•	•	•	•	×	×	×	×	×	×	×	×	•	•	•	•
	Wiring hole	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Earthed Protection	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Drain Outlet	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Materials with Gensets	Parts Manual	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Operation manual	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Warranty manual	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Records notebook of Maintenance	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Circuit Diagram	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

> **Also available in the following voltages:** 415/240V-380/220V-220/127V-200/115V;
> **ESP:** Standby Power Standby duty, operation under variable load, without over load;
> **PRP:** Prime Power-Continuous duty operation, under variable load 24/24h-10% over load permissible 1 hour/12 hours;
> **The data is only for your reference but not for use of sales.**
> **M:** Mechanical speed governor, E/ECU: Electronic speed governor;
> **NA:** Naturally aspirated, TC: Turbocharged, TCA: Turbocharged and air-air aftercooled. TCW: Water-cooled Turbocharged;
> **The weights are approximate and without fuel .**

Specification and Configuration

3-PH/1-PH 60Hz 1800RPM

Genset Model		GMS26C6S	GMS31C6S	GMS45C6S	GMS66C6S	GMS95C6S	GMS125C6S	GMS165C6S	GMS200C6S	GMS240C6S	GMS220C6S	GMS300C6S	GMS350C6S	GMS400C6S
Specification														
Prime Power (kVA/kW)		29/23	35/28	50/40	73/58	110/88	140/112	188/150	225/180	275/220	N/A	350/280	400/320	439/351
Standby Power (kVA/kW)		33/26	39/31	55/44	78.8/63	120/96	154/123	206/165	238/190	300/240	275/220	375/300	438/350	460/368
Phases		3PH	3PH	3PH	3PH	3PH	3PH	3PH	3PH	3PH	3PH	3PH	3PH	3PH
Dimension & Weight	Length (mm)	2338	2338	2688	2688	3038	3312	3442	3592	4242	4242	4242	4242	4242
	Width (mm)	1050	1100	1100	1080	1150	1150	1845	1845	1400	1400	1400	1400	1456
	Height (mm)	1551	1560	1708	1709	1796	1831	1342	1342	2269	2269	2269	2269	2287
	Weight (kg)	1233	1227	1425	1526	2008	2089	2564	2645	4555	4554	4803	4868	4866
	Fuel Tank Capacity (L)	190	240	280	270	540	300	500	470	661	661	661	661	623
Engine	Engine Model	4B3.9-G1	4B3.9-G1	4BT3.9-G1	4BTA3.9-G2	6BT5.9-G2	6BTAA5.9-G2	6CTA8.3-G2	6CTAA8.3-G2	6LTAA8.9-G2	NTB55-GA	NTA855-G1B	NTA855-G3	KTA19-G2
	NO.of Cylinders	4L	4L	4L	4L	6L	6L	6L	6L	6L	6L	6L	6L	6L
	Governor	M	M	M	E	M	E	E	E	E	E	E	E	E
	Aspiration	NA	NA	TC	TW	TC	TCA	TW	TCA	TW	TCA	TCA	TCA	TCA
	Displacement (L)	3.9	3.9	3.9	3.9	5.9	5.9	8.3	8.3	8.9	14	14	14	18.9
Alternator Model		PI144E	PI144G	PI144K	UCI224E	UCI274C	UCI274D	UCI274F	UCI274G	UCDI274J	UCDI274J	HCI444D	HCI444ES	HCI444E
Cons 100% (L/h)		6.7	6.7	9.3	13.1	22	30	40	45.4	53	53	68	72	98
Noise Level	dBA@1m	70.7	70.8	71.8	72.1	74.5	74.7	74.9	75.2	77.7	76.5	78.2	79.4	80.6
	dBA@7m	61.5	61.9	62.2	62.4	63.6	63.9	64.1	64.4	65.3	66.8	68.9	69.2	70.9
Qty of Doors (doors of control systems not included)		2	2	4	4	4	4	4	4	4	4	4	4	4
Configuration														
Engine	4 stroke water-cooled Diesel engine	●	●	●	●	●	●	●	●	●	●	●	●	●
	Industrial Silencer	●	●	●	●	●	●	●	●	●	●	●	●	●
	Switch in the Negative Pole	●	●	●	●	●	●	●	●	●	●	●	●	●
	Oil Sump Pump	●	●	●	●	●	●	●	●	●	●	●	●	●
	Water Jacket Preheater 220/240V	○	○	○	○	○	○	○	○	○	○	○	○	○
	Oil Preheater	○	○	○	○	○	○	○	○	○	○	○	○	○
	Standard Air Filter	●	●	●	●	●	●	●	●	●	●	●	●	●
Alternator	PMG	○	○	○	○	○	○	○	○	○	○	○	○	○
	Anti-condensing Heater	○	○	○	○	○	○	○	○	○	○	○	○	○
	Winding Temperature Measuring Instrument	○	○	○	○	○	○	○	○	○	○	○	○	○
	IP23 Single Bearing,Class H insulation	●	●	●	●	●	●	●	●	●	●	●	●	●
	Alternator Preheater	○	○	○	○	○	○	○	○	○	○	○	○	○
	AVR	●	●	●	●	●	●	●	●	●	●	●	●	●
Cooling Systems	Radiator for 45℃	●	●	●	●	●	●	●	●	●	●	●	●	●
	Coolant Integrated with genset	●	●	●	●	●	●	●	●	●	●	●	●	●
	Antifreezers	●	●	●	●	●	●	●	●	●	●	●	●	●
	Shelter of Water Tank	●	●	●	●	●	●	●	●	●	●	●	●	●
Starting Systems	Start-up and Charging	●	●	●	●	●	●	●	●	●	●	●	●	●
	Batteries with Cables and Switch	●	●	●	●	●	●	●	●	●	●	●	●	●
Control Systems	PLC-702HC	●	●	●	●	●	●	●	●	●	●	●	●	●
	PLC-7320	○	○	○	○	○	○	○	○	○	○	○	○	○
	PLC-B610	○	○	○	○	○	○	○	○	○	○	○	○	○
	PLC-AGC3	○	○	○	○	○	○	○	○	○	○	○	○	○
	Battery Charger	●	●	●	●	●	●	●	●	●	●	●	●	●
Fuel Systems	Automatic Refueling	×	×	×	×	×	×	×	×	×	×	×	×	×
	Breather Valve	●	●	●	●	●	●	●	●	●	●	●	●	●
	Fuel Level Sensor	●	●	●	●	●	●	●	●	●	●	●	●	●
	Fuel T-valves	○	○	○	○	○	○	○	○	○	○	○	○	○
Canopy and Soundproof Configuration	Outside Refueling	×	×	×	×	×	×	×	×	×	×	●	●	●
	Outside Watering	●	●	●	●	●	●	●	●	●	●	●	●	●
	Rainhat of Hush Pipe	●	●	●	●	●	●	●	●	●	●	●	●	●
	Lifting Lugs	○	○	●	●	●	●	●	●	●	●	●	●	●
	Ladders	×	×	×	×	×	×	×	×	×	×	●	×	●
	Shock Absorbers	●	●	●	●	●	●	●	●	●	●	●	●	●
	Emergency stop button Outlaid	●	●	●	●	●	●	●	●	●	●	●	●	●
	Control Cabinet with windows and doors	●	●	●	●	●	●	●	●	●	●	●	●	●
	No-skid Floor	×	×	×	×	×	×	×	×	×	×	×	×	×
	Air Inlet	●	●	●	●	●	●	●	●	●	●	●	●	●
	Air Outlet	●	●	●	●	●	●	●	●	●	●	●	●	●
	Inside silencer	●	●	●	●	●	●	●	●	●	●	●	●	●
	Outside silencer	×	×	×	×	×	×	×	×	×	×	×	×	×
	Fire extinguisher	×	×	×	×	×	×	×	×	×	×	×	×	×
	Emergency Light	×	×	×	×	×	×	×	×	×	×	×	×	×
	Rest room	×	×	×	×	×	×	×	×	×	×	×	×	×
Bases	Base Fuel Tank	●	●	●	●	●	●	●	●	●	●	●	●	●
	Holes for Forklift	●	●	●	●	●	●	●	●	●	●	●	●	●
	Pulling slots	●	●	●	●	●	●	●	●	●	●	●	●	●
	Wiring hole	●	●	●	●	●	●	●	●	●	●	●	●	●
	Earthed Protection	○	○	○	○	○	○	○	○	○	○	○	○	○
	Drain Outlet	●	●	●	●	●	●	●	●	●	●	●	●	●
Materials with Gensets	Parts Manual	●	●	●	●	●	●	●	●	●	●	●	●	●
	Operation manual	●	●	●	●	●	●	●	●	●	●	●	●	●
	Warranty manual	●	●	●	●	●	●	●	●	●	●	●	●	●
	Records notebook of Maintenance	●	●	●	●	●	●	●	●	●	●	●	●	●

● Standard ○ Optional × Impossible

Genset Model		GMS450C6S	GMS500C6S	GMS680C6S	GMS800C6S	GMS880C6S	GMS1020C6S	GMS1100C6S	GMS1100C6S	GMS1375C6S	PC26S6S	PC30S6S	PC45S6S	PC66S6S	PC105S6S
Specification															
Prime Power (kVA/kW)		512410	563/450	775/620	906/725	1000/800	1159/927	N/A	1250/1000	1563/1250	29/23	35/28	50/40	73/58	110/88
Standby Power (kVA/kW)		535/428	625/500	850/680	1000/800	1125/900	1250/1000	1375/1100	1375/1100	1760/1408	32/25.5	39/31	55/44	79/63	120/96
Phases		3PH	3PH	3PH	3PH	3PH	3PH	3PH	3PH	3PH	1PH	1PH	1PH	1PH	1PH
Dimension & Weight	Length (mm)	4512	4512	4512	6058	6058	6058	6058	6060	12192	2588	2688	1688	2668	3038
	Width (mm)	1500	1500	1500	2438	2438	2438	2438	2400	2438	1080	1081	1080	1100	1150
	Height (mm)	2559	2559	2560	2896	2896	6000	2830	2600	3150	1707	1710	1757	1757	1796
	Weight (kg)	6104	6076	6088	13495	13280	13395	15308	15308	20220	1407	1445	1559	1570	2008
	Fuel Tank Capacity (L)	1016	1016	970	1300	1300	1430	1500	1500	2000	270	240	360	360	540
Engine	Engine Model	KTA19-G3	KTA19-G4	KT38-G	KTA38-G2	KTA38-G2A	KTA38-G4	KTA38-G9	KTA50-G3	KTA50-G9	4B3.9-G1	4B3.9-G1	4BT3.9-G1	4BTA3.9-G2	6BT5.9-G2
	NO.of Cylinders	6L	6L	12V	12V	12V	12V	12V	16V	16V	4L	4L	4L	4L	6L
	Governor	E	E	E	E	E	E	E	E	E	M	M	M	E	M
	Aspiration	TCA	TCA	TCA	TCA	TCA	TCA	TCA	TCA	TCA	NA	NA	TC	TW	TC
	Displacement (L)	18.9	18.9	37.8	37.8	37.8	37.8	38	50	50.3	3.9	3.9	3.9	3.9	5.9
Alternator Model		HCI444F	HCI544C	HCI644F	LVI634C	LVI634D	LVI634E	LVI634G	LVI634F	PI734B	PI144K	UCI224D	UCI224F	UCI274D	UCI274G
Cons 100% (L/h)		111	120	154	204	225	245	254	254	350	6.7	6.7	9.3	13.1	22
Noise Level	dBA@1m	82.4	82.8	83.7	84.2	84.6	84.7	84.7	84.7	85.9	70.7	70.8	71.8	72.1	74.5
	dBA@7m	72.5	72.9	73.2	73.9	74.1	74.2	75.7	75.1	75.8	61.5	61.9	62.2	62.4	62.4
Qty of Doors (doors of control systems not included)		4	4	4	4	4	4	4	4	4	2	2	4	4	4
Configuration															
Engine	4 stroke water-cooled Diesel engine	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Industrial Silencer	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Switch in the Negative Pole	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Oil Sump Pump	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Water Jacket Preheater 220/240V	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Oil Preheater	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Standard Air Filter	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Alternator	PMG	○	○	○	●	●	●	●	●	●	○	○	○	○	○
	Anti-condensing Heater	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Winding Temperature Measuring Instrument	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	IP23 Single Bearing,Class H insulation	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Alternator Preheater	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	AVR	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Cooling Systems	Radiator for 45℃	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Coolant Integrated with genset	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Antifreezers	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Shelter of Water Tank	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Starting Systems	Start-up and Charging	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Batteries with Cables and Switch	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Control Systems	PLC-702HC	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	PLC-7320	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	PLC-B610	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	PLC-AGC3	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Battery Charger	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Fuel Systems	Automatic Refueling	×	×	×	●	●	●	●	●	●	●	●	●	●	●
	Breather Valve	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Fuel Level Sensor	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Fuel T-valves	○	○	●	●	●	●	●	●	●	○	○	○	○	○
Canopy and Soundproof Configuration	Outside Refueling	●	●	●	●	●	●	●	●	●	●	●	●	●	×
	Outside Watering	●	●	●	×	×	×	×	×	×	×	×	●	●	●
	Rainhat of Hush Pipe	●	●	●	●	●	●	●	●	×	×	●	●	●	●
	Lifting Lugs	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Ladders	●	●	●	●	●	●	●	●	●	×	×	×	×	×
	Shock Absorbers	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Emergency stop button Outlaid	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Control Cabinet with windows and doors	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	No-skid Floor	×	×	×	×	×	×	×	×	×	×	×	×	×	×
	Air Inlet	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Air Outlet	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Inside silencer	●	●	●	●	●	●	●	●	×	×	●	●	●	●
	Outside silencer	×	×	×	×	×	×	×	×	●	●	×	×	×	×
	Fire extinguisher	×	×	×	●	●	●	●	●	●	●	×	×	×	×
	Emergency Light	×	●	●	●	●	●	●	●	●	●	×	×	×	×
	Rest room	×	×	×	●	●	●	●	●	●	●	×	×	×	×
Bases	Base Fuel Tank	●	●	●	×	×	×	×	×	×	×	●	●	●	●
	Holes for Forklift	●	●	●	×	×	×	×	×	×	×	●	●	●	●
	Pulling slots	●	●	●	×	×	×	×	×	×	×	●	●	●	●
	Wiring hole	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Earthed Protection	○	○	○	○	○	○	○	○	○	●	●	●	●	○
	Drain Outlet	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Materials with Gensets	Parts Manual	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Operation manual	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Warranty manual	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Records notebook of Maintenance	●	●	●	●	●	●	●	●	●	●	●	●	●	●

> **Also available in the following voltages:** 440/254V-220/127V-208/120V;
> **ESP:** Standby Power Standby duty, operation under variable load, without over load;
> **PRP:** Prime Power-Continuous duty operation, under variable load 24/24h-10% over load permissible 1 hour/12 hours;
> **The data is only for your reference but not for use of sales.**
> **M:** Mechanical speed governor, E/ECU: Electronic speed governor;
> **NA:** Naturally aspirated, TC: Turbocharged, TCA: Turbocharged and air-air aftercooled. TCW: Water-cooled Turbocharged;
> **The weights are approximate and without fuel.**