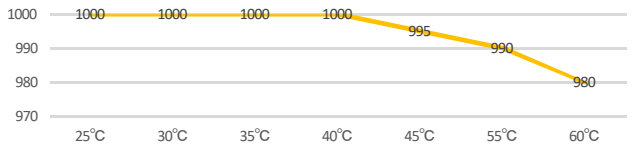
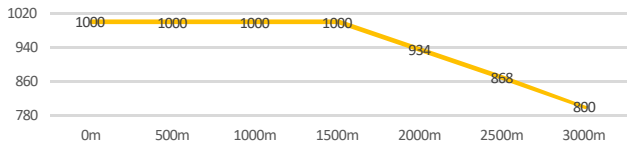
MODEL			PEMC1000
Power Pf.0.8	Standby	kVA	1000
		kW	800
	Prime	kVA	910
		kW	728
	Frequency	Hz	50
	Voltage	V	230/400
	Rated speed	rpm	1500

Temperature (Celsius) Derate Curves
Unit：kVA



Altitude (meters) Derate Curves
Unit：kVA



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

Standard reference Conditions:

Standard reference condition 25℃ (77℉) 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

▸ MABNA 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 50Hz 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 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.

RATINGS: All three-phase units are rated at 0.8 power factor. ***Standby ratings***: Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046/1, BS 5514, AS 2789, and DIN 6271. ***Prime power ratings:***Prime power ratings apply to installations where utility power is unavailable or unreliable. At varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO-8528/1, overload power in accordance with ISO-3046/1, BS 5514, AS 2789, and DIN 6271.For limited running time and base load ratings, consult MABNA. Obtain the technical information bulletin (TIS-101) on ratings guidelines for the complete ratings definitions. MABNA reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever.

Cummins engine Model: KTA38-G2A

Engine Brand		CUMMINS
Engine Model		KTA38-G2A
Cylinder No.& Configuration		12 cylinder Diesel.VEE type
Working Mode		Turbocharged and Aftercooled (Jacket water to cooler)
Bore x Stroke	mm	159*159
Displacement	L	38
Compression Ratio		14.5:1
Rated Power	kW	813
Rated Speed		1500
Lubrication System		Splash Lubrication
Lube Oil		Conforms above CF class or SAE10W-30,15w-40
Lube Oil Capacity	L	135.1
Battery Capacity		6-QW-120(850)*4
Fuel Type		Diesel:0#(Summer),-10#(Winter),-35#(Cold)
Fuel Consumption 25% load	L/H	63.5
Fuel Consumption 50% load	L/H	106.4
Fuel Consumption 75% load	L/H	148.7
Fuel Consumption 100% load	L/H	192.6

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℃, 150℃ 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
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

Audiovisual annunciation with NFPA 110 Level 1 capability. Programmable microprocessor logic and digital display features. Safeguard circuit protection standard.
12- or 24-volt engine electrical system capability.
Remote start, remote annunciation, and remote communication options. Refer to M6-46 for additional controller features and accessories

Key Features

- 4-line back-lit LCD text display
- Five key menu navigation
- Front panel editing with PIN protection
- LED and LCD alarm indication
- Customisable status screens
- Power save mode
- Support for up to three remote display units
- 9 configurable inputs
- 8 configurable outputs
- Flexible sender inputs
- Configurable timers and alarms
- 3 configurable maintenance alarms
- Multiple date and time scheduler
- Configurable event log (250)
- Control logic facilities
- Easy access diagnostic page
- CAN and Magnetic Pick-up / Alt. Sensing
- Fuel usage monitor and low fuel alarms
- Charger alternator failure alarm
- Manual speed control
- Manual fuel pump control
- Engine exerciser
- “protections disabled” feature
- kW overload protection
- Power monitoring
- Load switching (load shedding and dummy load outputs)
- Automatic load transfer
- Unbalanced load protection
- Independent Earth Fault trip
- USB connectivity
- Backed up real time clock
- Configurable display languages
- User selectable RS232 and RS485 communications
- SMS Messaging (additional external modem required)
- Additional display screens to help with modem diagnostics
- Integral PLC editor

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 (optional)
- Water jacket heater (optional)

Alternator

- Class H insulation
- IP23 Protection
- Automatic Voltage Regulator (AVR)
- PMG excitation
- 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

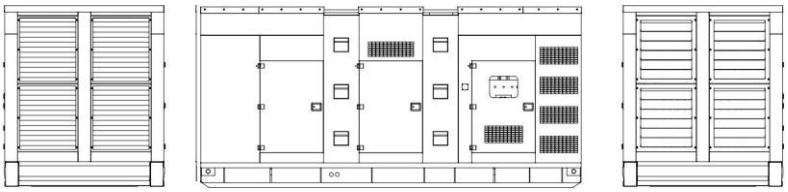
Baseframe

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

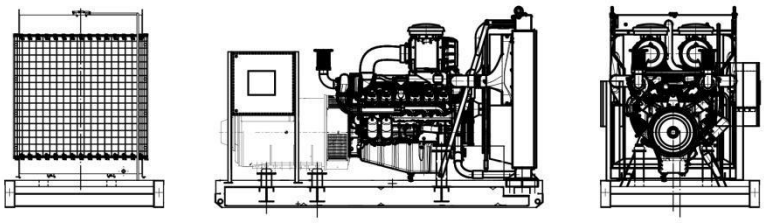
Canopy

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

Overview Dimension & Weight



C1000S3 (Silent type)					
Configuration	L= Length (mm)	W= Width (mm)	H= Height (mm)	Weight (kg)	Fuel Tank Capacity (L)
Silent Type	5400	2260	2550	9646	1000(optional)



C1000E3 (Open type)					
Configuration	L= Length (mm)	W= Width (mm)	H= Height (mm)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	4550	2100	2320	7000	1000(optional)

Contact your distributor / dealer for more information

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