



SERVICE		PRP	ESP
POWER	kVA	45	50
POWER	kW	36	40
RATED SPEED	r.p.m.	1.500	
STANDARD VOLTAGE	V	400/230	
AVAILABLE VOLTAGES	V	230/132 · 230 V (t)	
RATED AT POWER FACTOR	Cos Phi	0,8	



INDUSTRIAL RANGE

Guangdong Power Limited (G-Power) is ISO 9001 certified.

G-Power generator sets are CE compliant and conform to the following directives:

- 2006/42/CE Machinery safety.
- 2014/30/UE Electromagnetic compatibility.
- 2014/35/UE electrical equipment designed for use within certain voltage limits
- 2000/14/EC Sound Power level. Noise emissions outdoor equipment. (amended by 2005/88/EC)
- EN 12100, EN 13857, EN 60204

Ambient conditions of reference according to ISO 8528-1:2018 normative: 1000 mbar, 25°C, 30% relative humidity.

Prime Power (PRP):

According to ISO 8528-1:2018, Prime power is the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output (Ppp) over 24 h of operation shall not exceed 70 % of the PRP.

Emergency Standby Power (ESP):

According to ISO 8528-1:2018, Emergency standby power is the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 h of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. The permissible average power output over 24 h of operation shall not exceed 70 % of the ESP

Continuous Power (COP): According to Standard ISO 8528-1:2018, this is the maximum power available for continuous loads for unlimited running hours a year between the maintenance times recommended by the manufacturer under the environmental conditions established by the same.

G2 class load acceptance in accordance with ISO 8528-5:2013



STANDARD SOUNDPROOFING



C10



WATER-COOLED



THREE PHASE



50 HZ



NON COMPLYING 97/68/EC



DIESEL



Engine Specifications | 1.500 r.p.m.

Rated Output (PRP)	kW	46
Rated Output (ESP)	kW	51
Manufacturer	G Power	
Model	4HD38 TC5	
Engine Type	4-stroke diesel	
Injection Type	Direct	
Aspiration Type	Turbocharged	
Number of cylinders and arrangement	4-L	
Bore and Stroke	mm	102 x 118
Displacement	L	3,857
Cooling System	Liquid (water + 50% glycol)	
Lube Oil Specifications	API CF4, SAE 15W40	
Compression Ratio	17,5:1	

Fuel Consumption ESP	l/h	13,7
Fuel Consumption 100% PRP	l/h	12,3
Fuel Consumption 75 % PRP	l/h	9,2
Fuel Consumption 50 % PRP	l/h	6,4
Fuel Consumption 25 % PRP	l/h	3,5
Lube oil consumption with full load	0,8 % of fuel consumption	
Total oil capacity including tubes, filters	L	8
Total coolant capacity	L	12
Heat dissipated by coolant	kW	24,1
Governor	Type	Electrical
Air Filter	Type	Dry



- Diesel engine
- 4-stroke cycle
- Water-cooled
- 24V electrical system
- Water separator filter (no visible level)
- Dry air filter
- Radiator with pusher fan
- HTW sender
- LOP sender
- Electronic governor
- Hot parts protection
- Moving parts protection
- Radiator water level sensor (Opcional).



Generator Specifications | MECC ALTE

Manufacturer	MECC ALTE	
Model	ECP32 1M/4 B	
Poles	No.	4
Connection type (standard)	Star-series	
Mounting type	S-3 11°1/2	
Insulation	Class	H class

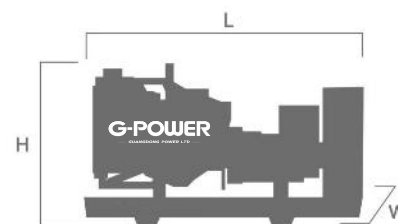
Enclosure (according IEC-34-5)	IP23
Exciter system	Self-excited, brushless
Voltage regulator	A.V.R. (Electronic)
Bracket type	Single bearing
Coupling system	Flexible disc
Coating type	Standard (Vacuum impregnation)



- Self-excited and self-regulated
- IP23 protection
- H class insulation

WEIGHT AND DIMENSIONS

Standard Version		
Length (L)	mm	2.150
Height (H)	mm	1.271
Width (W)	mm	780
Maximum shipping volume	m ³	2,13
Weight with liquids in radiator and sump	Kg	878
Fuel tank capacity	L	145
Autonomy	Hours	16



APPLICATION DATA

EXHAUST SYSTEM

Maximum exhaust temperature	°C	550
Exhaust Gas Flow	m ³ /min	8,4
Maximum allowed back pressure	kPa	6,5
Heat dissipated by exhaust pipe	kW	36,4

NECESSARY AMOUNT OF AIR

Intake air flow	m ³ /h	192
Cooling Air Flow	m ³ /s	1,5
Alternator fan air flow	m ³ /s	0,197

STARTING SYSTEM

Starting power	kW	4,5
Starting power	CV	6,12
Recommended battery	Ah	150
Auxiliary Voltage	Vdc	24

FUEL SYSTEM

Fuel Oil Specifications	Diesel	
Fuel Tank	L	145



Open set version

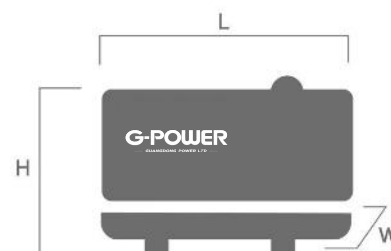
- Steel chassis
- Emergency stop button
- Oil sump extraction kit
- Anti-vibration shock absorbers
- Chassis with integrated fuel tank
- Fuel level gauge
- High mechanical strength
- Epoxy polyester powder coating
- Fuel tank drain plug
- Steel industrial silencer -15db(A) attenuation
- Fuel transfer pump (Opcional).
- Steel residential silencer -35db(A) attenuation. (Opcional).

Diesel Generator Set

Model: HGM50

WEIGHT AND DIMENSIONS

		Standard Version	High Capacity version
Length (L)	mm	2.300	2.300
Height (H)	mm	1.458	1.628
Width (W)	mm	1.050	1.050
Maximum shipping volume	m ³	3,52	3,93
Weight with liquids in radiator and sump	Kg	1296	1410
Fuel tank capacity	L	130	400
Autonomy	Hours	14	43
		Plastic tank	Steel tank



SOUND PRESSURE

Sound pressure level	dB(A)@7m	68 ± 2,4
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APPLICATION DATA

EXHAUST SYSTEM

Maximum exhaust temperature	°C	550
Exhaust Gas Flow	m ³ /min	8,4
Maximum allowed back pressure	kPa	6,5
Exhaust Flange Size (external diameter)	mm	89
Heat dissipated by exhaust pipe	kW	36,4

NECESSARY AMOUNT OF AIR

Intake air flow	m ³ /h	192
Cooling Air Flow	m ³ /s	1,5
Alternator fan air flow	m ³ /s	0,197

STARTING SYSTEM

Starting power	kW	4,5
Starting power	CV	6,12
Recommended battery	Ah	150
Auxiliary Voltage	Vdc	24

FUEL SYSTEM

Fuel Oil Specifications		Diesel
Fuel Tank	L	130
Other fuel tank capacities	L	400



Soundproofed version

- Steel chassis
- Anti-vibration shock absorbers
- Chassis with integrated fuel tank
- Fuel level gauge
- External emergency stop switch
- Bodywork made from high quality steel plate
- High mechanical strength
- Low noise emissions level
- Soundproofing provided by high-density volcanic rock wool
- Epoxy polyester powder coating
- Full access for maintenance (water, oil and filters, no need to remove the canopy)
- Reinforced lifting hooks for crane hoisting
- Watertight chassis (acts as a double barrier against liquid retention)
- Fuel tank drain plug
- Chassis drain plug
- Chassis ready for future mobile kit installation
- Steel residential silencer -35db(A) attenuation.
- Oil sump extraction kit
- Versatility to assemble a high capacity chassis with a metallic fuel tank
- IP Protection according to ISO 8528-13:2016
- 3 way valve for external fuel supply (available in 1/2" and 3/8" fittings) (Optional).
- Fuel transfer pump (Optional).