



SERVICE		PRP / DCP	ESP
POWER	kVA	2250	2500
POWER	kW	1800	2000
RATED SPEED	r.p.m.	1.500	
STANDARD VOLTAGE	V	400/230	
AVAILABLE VOLTAGES	V	380/220 · 415/240	
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)
- 97/68/EC Emissions of gaseous and particulate pollutants. (amended by 2012/46/EU)
- 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.

Data Center Power (DCP) : Complies with Uptime Institute: Tier III & IV. The manufacturer declares a load factor for grid failure of 100% per 24h and an average load factor per year less than 75%. No overload margin available. It can be operated for an unlimited number of hours per year. Applicable in countries with stable network. If the model is for DCP application, inform Factory.
G2 class load acceptance in accordance with ISO 8528-5:2018



OPEN SKID



K48



WATER-COOLED



THREE PHASE



50 HZ



DIESEL



Engine Specifications | 1.500 r.p.m.

Rated Output (PRP) / DCP	kW	1899
Rated Output (ESP)	kW	2106
Manufacturer	G Power	
Model	S16R2 PTAW C	
Engine Type	4-stroke diesel	
Injection Type	Direct	
Aspiration Type	Turbocharged and after-cooled	
Number of cylinders and arrangement	16-V	
Bore and Stroke	mm	170 x 220
Displacement	L	79,9
Cooling System	Water	
Lube Oil Specifications	API CF, SAE 15W40	
Compression Ratio	14,0:1	

Lube oil consumption with full load	g/kWh	0,8
Total oil capacity including tubes, filters	L	290
Total coolant capacity	L	500
Governor	Type	Electrical
Air Filter	Type	Dry



- Oil temperature sensor
- Low coolant level sensor
- Exhaust gas compensator
- Diesel engine
- 4-stroke cycle
- Water-cooled
- 24V electrical system
- Standard air filter
- Standard fuel filter
- Standard oil filter
- Radiator with pusher fan (vertical configuration)
- HTW sender
- LOP sender
- Electronic governor
- Hot parts protection
- Moving parts protection



Generator Specifications | STAMFORD

Manufacturer	STAMFORD	
Model	PI734H	
Poles	No.	4
Connection type (standard)	Star	
Mounting type	S-00 21"	
Insulation	Class	H class

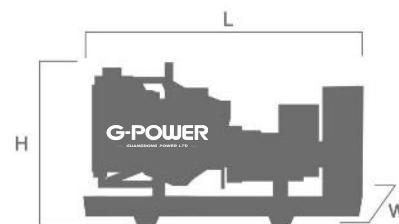
Enclosure (according IEC-34-5)	IP23
Exciter system	Self-excited, brushless
Voltage regulator	A.V.R. (Electronic)
Bracket type	Single bearing
Coupling system	Flexible disc
Coating type	Standard (Vacuum impregnation)



- Self-excited and self-regulated
- 4 poles
- AVR governor
- IP23 protection
- H class insulation

WEIGHT AND DIMENSIONS

Standard Version		
Length (L)	mm	6.664
Height (H)	mm	2.519
Width (W)	mm	2.200
Maximum shipping volume	m ³	36,93
Weight with liquids in radiator and sump	Kg	16440
Fuel tank capacity	L	450
Autonomy	Hours	1



APPLICATION DATA

EXHAUST SYSTEM

Maximum exhaust temperature	°C	497
Exhaust Gas Flow	m ³ /min	498
Maximum allowed back pressure	mm H ₂ O	600
Heat dissipated by exhaust pipe	KCal/Kwh	615,26

NECESSARY AMOUNT OF AIR

Intake air flow	m ³ /h	11280
Cooling Air Flow	m ³ /s	38,6
Alternator fan air flow	m ³ /s	2,95

FUEL CONSUMPTION

Fuel Consumption 100% ESP	l/h	560,7
Fuel Consumption 100% PRP	l/h	500,2
Fuel Consumption 70 % PRP	l/h	346,18
Fuel Consumption 50 % PRP	l/h	251,3

FUEL SYSTEM

Fuel Oil Specifications	Diesel	
Maximum power suction pump	mm Hg	75
Maximum return feed pump	mm Hg	150
Fuel Tank	L	450

STARTING SYSTEM

Starting power	kW	7,5 x 2
Starting power	CV	10,2 x 2
Recommended battery	Ah	400
Auxiliary Voltage	Vdc	24
Starter current peak	A	1250
Nominal starter current	A	400

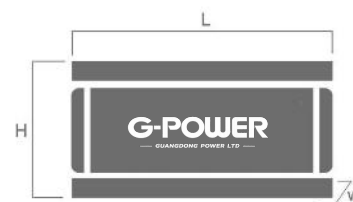


Open set version

- Steel chassis
- Emergency stop button
- Oil sump extraction kit
- Anti-vibration shock absorbers

WEIGHT AND DIMENSIONS

Standard Version		
Length (L)	mm	12.192
Height (H)	mm	2.896
Width (W)	mm	2.438
Maximum shipping volume	m ³	86,08
Weight with liquids in radiator and sump		Ask
Fuel tank capacity	L	2000
Autonomy	Hours	5



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Container version

- Soundproofing provided by high-density volcanic rock wool
- High mechanical resistance
- Low level of noise emissions
- Door with window to visualize control panel, alarms and measurements
- Reinforced lifting points for crane hoisting and lower ones for transportation by forklift
- Residential steel silencer with -35dB attenuation and tilting cap in the exhaust
- Fuel tank integrated in the chassis
- Anti-vibration shock absorbers
- Steel chassis
- Manual oil extraction pump
- Robust construction designed for continuous or emergency applications
- Stainless steel fittings
- Emergency stops
- Easy access to the power connection
- Reinforced chassis for heavy range
- Easy access for chassis cleaning
- Silent-block with anti-corrosion protection between the genset and the chassis
- Easy access to fill radiator through the roof