DATA SHEET

CCS ISO9001 ISO14000 ISO18000

Diesel Generator Set
Powered by Perkins
Model:BG2000

*Drawing above for illustration purposes only

Ⅰ. GENERAL DATA

Prime Power	kW/kVA	1480	1850
Standby Power	kW/kVA	1600	2000
Frequency	Hz/rpm	50	1500
Voltage	V	400	230
Current	A	2670	
Connection	/	3P 4W / Y	
Rated Power Factor	/	0.8	
Fuel tank capacity	/	1000L	
Open Type（L×W×H）	mm	6600×2250×2750	
Open Type(Weight)	kg	16500	
Silent Type（L×W×H）	mm	12192×2438×2896	
Silent Type(Weight)	kg	26500	

■Available for voltages 400/230V, 480/277V, 380/220V, 440/254V, 416/240V,220/127V, 208/120V

■All datas based on ISO 3046, altitude 100m (328ft), barometric pressure 100kPa (29.53inHg), air temperature 25℃ (77°F), relative humidity 30%.

■Please contact with engineer for correct generator capacity selection when the load application can't meet with the standard reference.

■ diesel generators comply with standards :ISO8528,ISO 14000,ISO3046,GB755,BS5000,VDE0530,IEC34-1

Ⅱ. STANDARD CONFIGURATION

Engine	Perkins, including air filters, fuel filters, oil filter, starting motor and charging alternator etc.
Alternator	brushless AC alternator
Radiator	40℃, fan protective shroud
Base frame	≤520KW: base mounted fuel tank, anti-vibration pads, battery holder ＞520KW: channel steel base frame, anti-vibration pads, battery holder
Circuit Breaker	＞1250A： Air circuit breaker(ACB)
Control System	DEEP SEA 6020
Start Battery	Dry charged battery, available for 6 times starts under standard condition; connection cables.
Installation Accessories	Bellow, Elbow and flange, Exhaust silencer, etc.
Tool	standard
Documents	electric drawing, operation & maintenance manual, certification etc.

Ⅲ. OPTIONAL CONFIGURATION

Engine Accessories	◇Heavy-duty air filter ◇Coolant heater ◇Lub oil heater ◇Fuel and Water Separator
Alternator And Accessories	◇Stamford ◇Yanan ◇Marathon ◇Anti condensation heater ◇PMG ◇High voltage _____kV
Cooling System	◇50℃radiator ◇Heat exchanger + water cooling tower + External water circulation pumping system ◇Remote horizontal water tank system
Control System	◇AMF ◇Parallel ◇Practical type in low temperature environment ◇Control Screen Heater ◇Other（Comap、DEIF）
Circuit Breaker	◇3/4 poles ◇Fixed/handcart type ◇Electric mechanism
Automatic Transfer Swtich	◇ATS cabinet
Start Battery	◇Nickel-cadmium battery ◇Maintenance-free battery ◇Power charger and selector ◇Charging current meter
External Fuel Tank	◇500L ◇1000L ◇1500L ◇2000L ◇2500L ◇3000L ◇4000L ◇5000L
Others	_____

Ⅳ. ENGINE DATA

Engine Model	4016TAG1A	Engine Power	1690	kW
Aspiration	Turbocharged, Air-to-air charge cooled	Displacement	61.123	L
Type	60° Vee	Bore×Stroke	160×190	mm
No. of Cylinders	16	Compression Ratio	13.6:1	
Governor Type	Electric	Rated Speed	1500	RPM

■ *Fuel System*

Prime Power Fuel Consumption	383	L/h	Standby Power Fuel Consumption	424	L/h
Prime Power Fuel Consumption 75%	277	L/h	Prime Power Fuel Consumption 50%	185	L/h
Fuel #	0# Diesel				

■ *Lubrication System*

Lub Oil Capacity	214.0	L		
Lub #	API:CG SAE:15W40		Max.Temperature	105	℃

■ *Coolant System*

Coolant Capacity	316.0	L	Max. Top Tank Temp.	98	℃
Std. Thermostat (Modulating) Range	71-85	℃	Fan Drive Method	Shaft drive	
Cooling Fan Air Flow	2394	m3/min			

■ *Air Intake System*

Combustion Air Flow	132/140	m3/min	Maximum Air Intake Restriction	3.7	kPa

■ *Exhaust System*

Exhaust Gas Flow	343	m3/min	Max.Back Pressure	9	kPa
Exhaust Gas Temp	≤439	℃	Exhaust Pipe Size	ϕ254x2	mm

■ *Starting System*

Start Mode	DC24V Electric start		Battery	200x4	Ah

V. ALTERNATOR DATA

Alternator Model	LSA52.3 S5	Rate Power	1488/1860	kW/kVA
PF.	0.8	Voltage	400/230	
Phase	3	Frequency	50	Hz
Connection	3P 4W/Y	Bearing	1	
Winding Pitch	2/3	Proteccion Class	IP23	
Insulation Class	H	Efficiency	96.0%	
Tel. Influence	TIF：＜50	Voltage Regulation	±0.5%	
Harmonic Coefficient	THF：＜2%	AVR	D 510C	
Voltage Adjust Scope	≥±5%	Excitation System	AREP + PMI	

VI. CONTROL SYSTEM DATA MODEL DSE6020

■ Main feature

Electronic J1939 (CAN) and nonelectronic MPU and alternator sensing engine support for diesel, gas and petrol engines all in one variant.
With a number of flexible inputs, outputs and protections,
the modules can be easily adapted to suit a wide range of applications.

■ Key Function

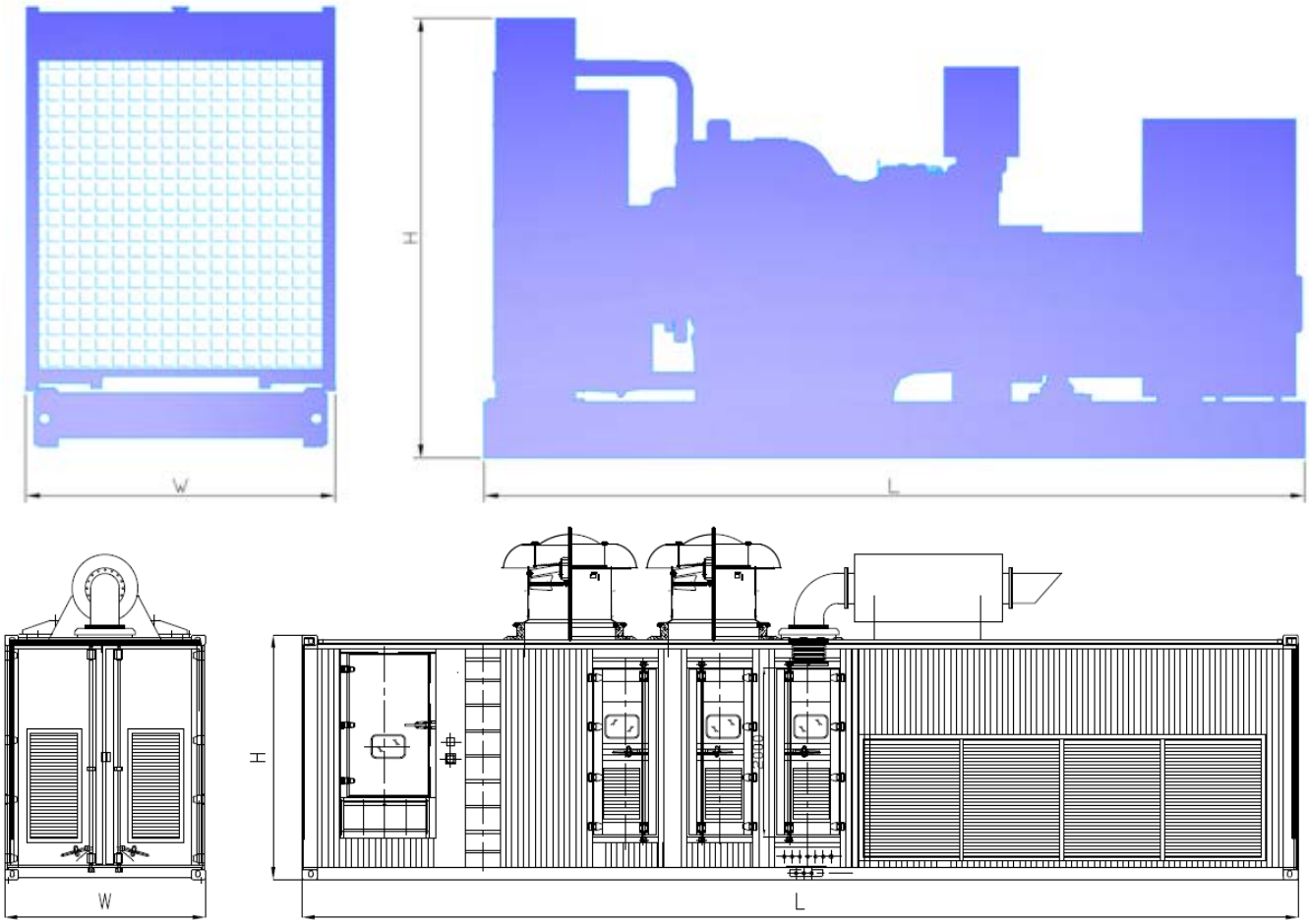
▲Utility voltage sensing
▲Generator/load power monitoring (kW, kV A, kV Ar, pf)
▲Generator overload protection (kW)
▲Efficient power save mode
▲Mains and generator closed via front panel
▲4 configurable DC outputs
▲4 configurable analog./digital inputs
▲6 configurable digital inputs
▲Support for 0-10 V & 4-20 mA oil pressure sensors
▲Configurable staged loading outputs
▲CAN, MPU and alternator speed sensing in one variant
▲3 engine maintenance alarms
▲Engine speed protection
▲Engine pre-heat
▲Multiple date and time scheduler
▲Engine idle control for starting & stopping
▲Fuel pump control
▲Battery voltage monitoring
▲Start on low battery voltage
▲Configurable remote start input
▲Alternative configuration
▲Alarm including common alarm,common electric and common shutdown
▲LCD and LED alarm indication
▲Configurable event log (50)
▲Heated display option available
☆*For more information, please visit the official website*

Ⅶ. WARRANTY POLICY

1. The Perkins Diesel Engine shall have warranty of 12 Months or 1000 hours whichever occurs first against any manufacturing defects, please refer to 《Diesel Generator Warranty Manual》 for more details.

2.Wearing parts(filters), incorrect man-made operation, maintenance failures are excluded from the warranty policy

Ⅷ. DRAWING (for illustration purposes only)



BAHMANI GROUP

Your Partner, in Power Generator Sets

Bahmani General Trading Co. LLC,
Tel: +97142298687, Fax: +97142298606,
info@bahmanigroup.com