30KVA Cummins Diesel Generator Set Datasheet



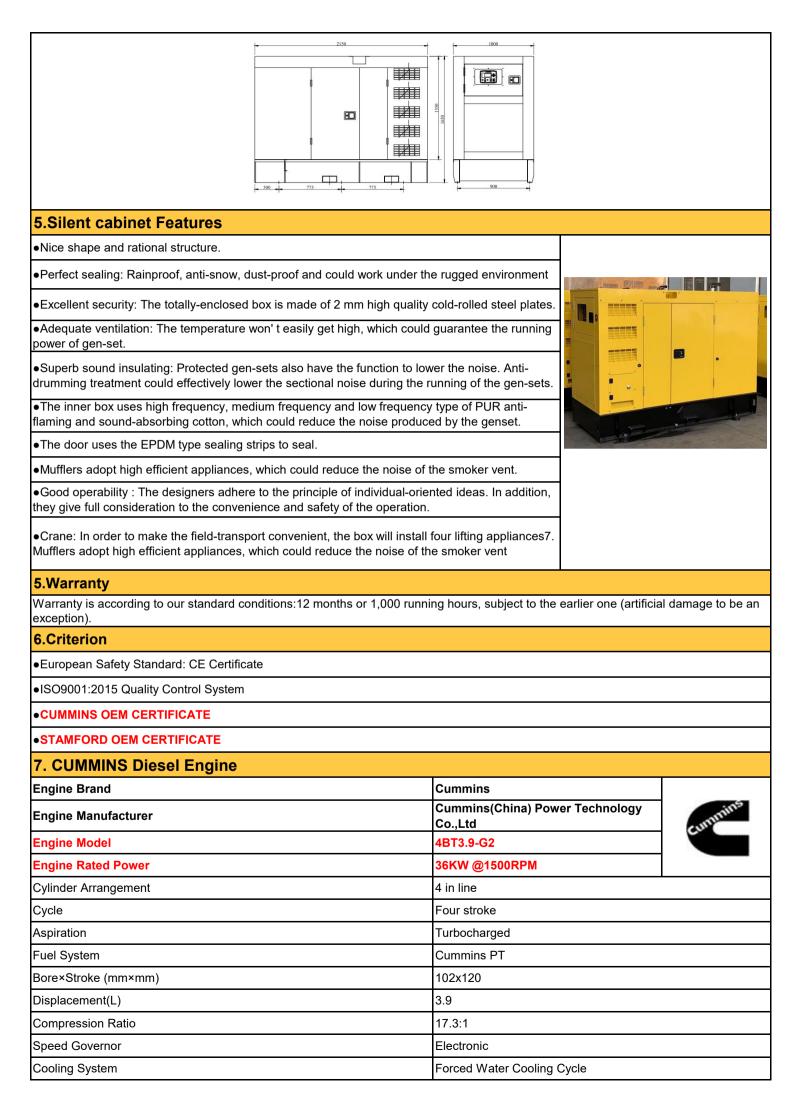
Model:KH-24GF Engine: CUMMINS Alternator: STAMFORD Control Panel: UK DEEPSEA Prime Power:30KVA/24KW Standby Power:33KVA/26.4KW



PRP ●Prime power is available for an unlimited number of annual hours in variable load application,in accordance with GB/T2820-97; A 10% overload capability is available for a period of 1 hour within a 12-hour of operation.

ESP •The standby power rating is applicable for supplying emergency power for the duration of a utility power interruption.No overload, utility parallel or negotiated outage operation capability is available at this rating.

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1.Standard Spe	cification						
Genset model	Voltage	Frequency	Phase	Power Factory	Protection Class	Insulation Grade	
KH-24GF	240/415V	50HZ	3	0.8(lagging)	IP23	н	
2.Engine and g	enset output ra	dting					
Engine model	Engine Speed (RPM)	Prime (KW/HP)	Standby (KW/HP)	Genset Model	Prime (KVA/KW)	Standby (KVA/KW)	
4BT3.9-G2	1500	36/48	40/54	KH-24GF	30/24	33/26.4	
3.Scope of stan	dard supply						
•Engine: CUMM	IINS brand new						
•.Alternator: STAN	/FORD brand new						
Controller: Auton	natic controller DSE	7320MKII with	AMF function				
•Breaker: Manua	ıl circuit breaker 3-p	oole, China C⊦	INT				
Radiator: Cumn	nins Brand new 50°	С					
•Vibration: Vibrat	ion damper betwee	n engine/alterr	nator and base frame				
•Base: Heavy	duty steel channel b	oase frame					
•Silencer: Heavy	duty industrial type	e silencer with	flexible bellow,elbow				
•Battery: High c	apacity sealed free	maintenance	pattery C/W battery c	ables			
•Manuals: Stand	ard tools, operator's	s manual of er	igine ,alternator , con	troller, breaker			
4.Optionals							
Soundproof Cabinet			●Oil/ Water/Fuel Heating system		Anticondensation heater		
Heater Preservation Cabinet		Automatic Transfer Switch (ATS)		●Daily Fuel Tank			
●Rainproof Cabinet			Remote Control System		Output Cable		
 Standdard Container cabinet(20GP/20HC/40HC) 		Synchronization System		Maintainance Spare Parts			
●Trailer (10-500KVA)			•Breaker brand (ABB,Simens,Schneider)		 Plywood Case Packing 		
4.DIMENSIONS	(L*W*H) And W	eight			·		
	PROCESS FLO	W:Drawing→C	utting→Bending→W	elding→Spraying→Asse	embling→Testing		
	810KG			.		1100KG	
Open Type	1600*750*1200mm			Silent Type	2150*	2150*1000*1650mm	



Starter Motor	DC24V electrical starting			
Exhaust System				
Exhaust Gas Flow (I/s)	101			
Exhaust Temperature(℃)				
Standby Power	487			
Prime Power	363			
Max Back Pressure(kPa)	10			
Air Intake System				
Max Intake Restriction(kPa)				
●Dirty Element	6			
●Clean Element	4			
Air Flow(I/s)	44			
Fuel System				
Type Injection System	BYC A Direct Injection			
110%(Standby Power) Load(L/H)	10.3			
100%(Prime Power) Load(L/H)	9.3			
75%(Prime Power) Load(L/H)	7.3			
50%(Prime Power) Load(L/H)	5.3			
25%(Prime Power) Load(L/H)	3.4			
Oil System				
Maximum Oil Temperature(℃)	121			
Oil Pressure at Rated RPM	207-345			
Minimum Required Lube System Capacity (L)	10.9			
Cooling System				
Coolant Capacity - Engine Only(L)	7.2			
Thermostat range(℃)	82-95			
Max Water Temperature Standby/Prime(℃)	104/100			
8. Specification of STAMFPRD alternator				
Alternator Brand	Stamford			
Engine Manufacturer	Cummins GeneratorTechnologies (China) Co., Ltd			
Alternator Model	S0L2-P1			
Alternator Rated Power	30KVA/24KW STAMFORD			
Rated Voltage	415V STANFORD			
Rated frequency	50HZ			
Connecting Type	3 Phase and 4 Wires			
Number of Bearing	1			
Protection Grade	IP23			
Altitude	≤1000m Brushless ,Self-exciting, AVR automatic voltage			
Exciter Type	regulating,100% Copper winding wire			
Insulation Class	Н			
Telephone Influence Factor (TIF)	≤50			
THE	≤2%			
Voltage Regulation, Steady State	≤±1% < 15% - +20%			
Transient State Voltage	≤-15%~+20%			
9. Specification of control System (Deepsea DSE7	320MKII Module)			

DSE7320 controller is an advanced control module based on micro-processor, It is an Auto Mains (Utility) Failure Control Module (AMF), have been designed to start and stop generating sets that include electronic And non-electronic engines. Include the additional capability of being able to monitor a mains (utility) supply. when main is not available, It can automatically start the engine and close generating sets breaker automatically, Accurately measure various operational parameters and display all values and alarms information on the LCD. In additional, it can automatically open breaker, and shutdown the engine after the main supply recovers.

Main Features

• AMF and ATS and communication and expansion function.

• Designed to work with electronic or non-electronic or gas engine simultaneously. (support many kinds of engines ECU).

Manual, Automatic, Test and remote control mode selectable.

• Monitoring and measuring operational parameters of the mains supply and genset.

· Indicating operation status, fault conditions, all parameters and alarms.

Multiple protections and multiple parameters display.

• Includes 12 inputs and eight outputs. 8 inputs are configurable and 4 outputs are configurable.

• 4 analog inputs for kinds of optional sensors that can be used for measuring oil pressure, coolant temperature, fuel level and so on; parameters can be configured by user.

• Can be programmed using the front panel or by using the PC software.

• Support twelve languages. The language was edited by customer.

· Graded protection: pre-alarm, shutdown and electrical trip, flexible setting.

• The module can be pre-set for four operating modes and protecting parameters.

• The firmware can be updated automatically, so customer can have the latest version.

Key Features

4-Line back-lit LCD text display

Multiple Display Languages

• Five key menu navigation

LCD alarm indication

Heated display option available

Customisable power-up text and images

DSENet expansion compatibility

Data logging facility • Internal PLC editor

• Protections disable feature • Fully configurable via PC using USB, RS232 & RS485 communication

• Front panel configuration with PIN protection

Power save mode

3 phase generator sensing and protection

3 phase mains (utility) sensing and protection (DSE7320 MKII only)

Automatic load transfer control (DSE7320 MKII only)

Generator current and power monitoring (kW, kvar, kVA, pf)

· Mains current and power monitoring (kW, kvar, kVA, pf) (DSE7320 MKII only)

• kW and kvar overload and reverse power alarms

Over current protection

Unbalanced load protection

· Independent earth fault protection · Breaker control via fascia buttons

Fuel and start outputs configurable when using CAN

• 6 configurable DC outputs

2 configurable volt-free relay outputs

6 configurable analogue/digital inputs

Support for 0 V to 10 V & 4 mA to 20 mA sensors

8 configurable digital inputs

Configurable 5 stage dummy load and load shedding outputs

• CAN, MPU and alternator frequency speed sensing in one variant					
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• Manual and automatic fuel pump control					
Engine pre-heat and post-heat functions					
Engine run-time scheduler					
Engine idle control for starting & stopping					
• Fuel usage monitor and low fuel level alarms					
Simultaneous use of RS232 and RS485 communication ports					
• True dual mutual standby using RS232 or RS485 for accurate engine hours balancing.					
MODBUS RTU support with configurable MODBUS pages.					
Advanced SMS messaging (additional external modem required)					
• Start & stop capability via SMS messaging					
• 3 configurable maintenance alarms					
Compatible with a wide range of CAN engines, including tier 4 engine support					
Uses DSE Configuration Suite PC Software for simplified configuration					
Licence-free PC software					
PIP65 rating (with supplied gasket) offers increased resistance to water ingress					
Modules can be integrated into building management systems (BMS) using MODBUS RTU					
Key Benefits					
Automatically transfers between mains (utility) and generator (DSE7320 MKII only) for convenience.					
Hours counter provides accurate information for monitoring and maintenance periods					
User-friendly set-up and button layout for ease of use					
Multiple parameters are monitored & displayed simultaneously for full visibility					
The module can be configured to suit a wide range of applications for user flexibility					
PLC editor allows user configurable functions to meet user specific application requirements.					