

## .Diesel Generator Set:GB-C45

Standard Features	
MODEL	GB-C45
Standby Power(50Hz)	39KW/49KVA
Prime Power(50Hz)	36KW/45KVA
Engine	CUMMINS 4BT3.9-G1
Alternator	LEROYSOMER TAL-A42-F

- Standard control panel, Including controller, Operation lighting, Emergency stop button, Buzzer
- Main line circuit breaker
- Two 12V free maintenance battery, battery charger, Battery Ract and Battery Switch
- Industrial silencer, Ripple Flex exhaust pipe, Flange
- Fork lift position and lifting position
- With-8 hours Base Fuel Tank; Fuel Tank Capacity: 120L
- Radiator 50°C max, Fans driven by Belt, with safety Guard
- Hand pump special for take out dirty oil



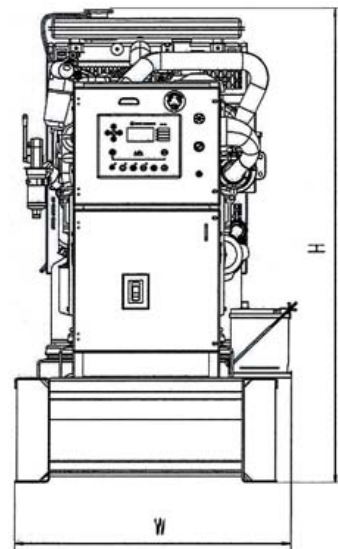
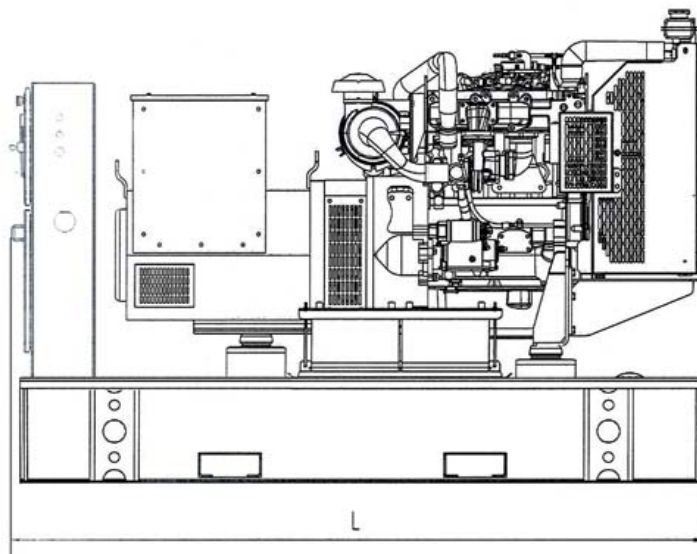
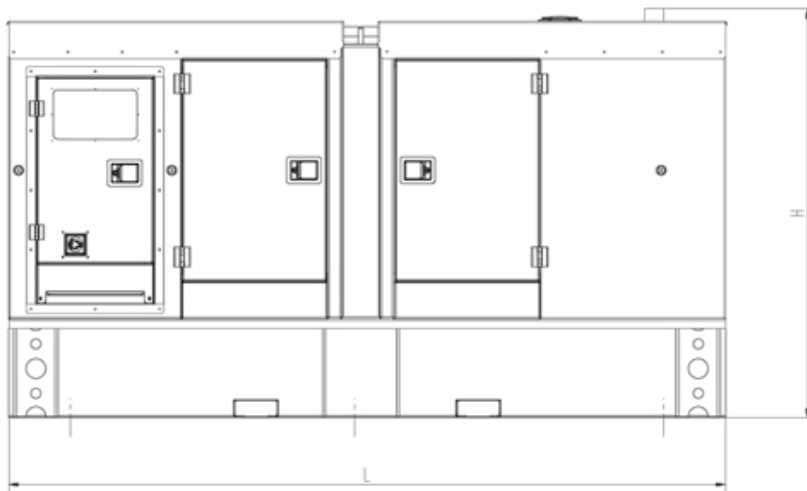
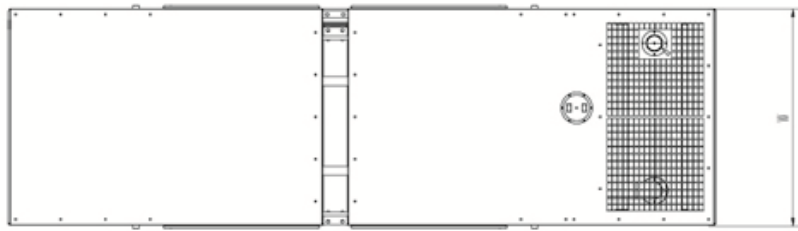
Open Type

Silent Type

Generator Set Ratings						
Voltage	Frequency	Phase	P.F (COS $\phi$ )	Prime Current Amps	Standby Power (KW/KVA)	Prime Power (KW/KVA)
440/254	50	3	0.8	59	39/49	36/45
415/240	50	3	0.8	62	39/49	36/45
400/230	50	3	0.8	65	39/49	36/45
380/220	50	3	0.8	68	39/49	36/45

Prime Power(PRP):Prime power is available for an unlimited number of annual hours in variable load application, in accordance with GB/T2820-97(eqvISO8528);10% overload capability is available for a period of 1 hour within a 12-hour period of operation. Standby Power Rating (STP):The standby power rating is applicable for supplying emergency

Dimension & Weight Of Generator Set	
Dimension(L*W*H)/CM For Open Type	170×76×130CM
Net Weight/KG For Open Type	876KG
Dimension(L*W*H)/CM For Silent Type	225×103×132 CM
Net Weight/KG For Silent Type	1200KG
Dimension (L*W*H)/MM For Trailer Type	
Net Weight/KG For Trailer Type	



Specification of Engine		
Basic Specific ation	Engine Model	4BT3.9-G1
	Manufacturer	DCEC CUMMINS
	Prime Power	36KW/48.9HP
	Standby Power	40KW/54.4HP
	Engine Configuration	4Cylinder In Line, 4Stroke
	Gas Feeding Model	Turbocharged
	Bore × Stroke	102×120(MM)
	Displacement	3.9L
	Rated Speed	1500RPM
	Speed Governor	Electric Governor
	Starter Model	24V DC Start
	Cooling System	Water Cool
	Compression Ratio	16.5:1
Exhaust System	Exhaust Gas Flow	4.3m <sup>3</sup> /min
	Exhaust Temperature	410℃
	Max Back Pressure	10kPa
Air Intake System	Max Intake Restriction	5kPa
	Burning Capacity	2.0m <sup>3</sup> /min
	Air Flow	136m <sup>3</sup> /min
Fuel System	Fuel Consumption (Prime Power 100%) Load	9.3L/H
	Fuel Consumption (Prime Power 75%) Load	7.3L/H
	Fuel Tank Capacity	120L
Lubricat ion System	Oil Capacity	10.9L
	Oil Consumption	≤4g/Kw.H
	Oil Pressure at Rated RPM	345kPa
Cooling System	Total Coolant Capacity	21L
	Thermostat Open Temperature	82-93℃
	Max Coolant Temperature	104℃

### Specification of Alternator

Basic Specification	Alternator Model	TAL-A42-F
	Manufacturer	LEROYSOMER company
	Prime Output	36KW/45KVA
	Standby Output	39KW/49KVA
	Excitation Model	Brushless, Self-Exciting
	Cooling Method	Air Cooling
	Connection Type	3 Phase and 12 Wires "Star" Connection
	Power Factor	0.8
	Protection Class	IP23
	Insulation Class	H
	Altitude	≤ 1000m
	Voltage Regulation, Steady State	≤ ± 1%
	Telephone Influence Factor	< 50
	Sudden Voltage Warp (100% Sudden Reduce)	≤ ± 1%
	Sudden Voltage Warp (Sudden Increase)	≤ ± 25%
	Voltage Stable Time (100% Sudden Reduce)	≤ 6S
	Voltage Stable Time (Sudden Increase)	≤ 6S
	Frequency Reduce	0-5% adjustable
	Frequency Regulation, Stead State	≤ 1.5%
	Frequency Waving	≤ 0.8%
	Sudden Frequency Warp (100% Sudden Reduce)	≤ +12%
	Sudden Frequency Warp (100% Sudden Increase)	≤ -10%
	Frequency Recovery Time (100% Sudden Reduce)	≤ 5S
Frequency Recovery Time (Sudden Increase)	≤ 5S	

Compliance GB755,BS5000,VDE0530,NEMAMG1-22,IED34-1,CSA22.2 and AS1359 Stands

**1.SINGLE SET GEN-SET CONTROLLER**

SUM : They meet all possible requirements for AMF applications,including modem control,user configuration and full gen-set monitoring and protection. AMF models enable the combination of manual and remote start application with auto mains fail function.



**KEY FEATURES:**

<p>1. High water Temperature Shutdown</p>	 <p>a.DSE 6020KII</p>
<p>2. Low Oil Pressure Shutdown</p>	
<p>3. Over Speed Shutdown</p>	
<p>4. Over Crank Shutdown</p>	
<p>5. Function as Emergent Stop</p>	 <p>b.ComAp AMF 20</p>
<p>6. Heated Display Option</p>	
<p>7. Breaker Control Buttons on Front Fascia</p>	
<p>8. Alternative Configuration (50Hz/60Hz)</p>	
<p>9.Support ATS Function</p>	<p>b.ComAp AMF 20</p>
<p><b>KEY FEATURES:</b></p>	
<p>1. High Water Temperature Shutdown</p>	 <p>c.DSE 7320</p>
<p>2. Low Oil Pressure Shutdown</p>	
<p>3. Over Speed Shutdown</p>	
<p>4. Over Crank Shutdown</p>	
<p>5. Function as Emergent Stop</p>	
<p>6. With Remote Teleport Communication RS 485</p>	
<p>7. Heated Display Option.</p>	<p>c.DSE 7320</p>
<p>8. Alternative Configuration (50HZ/60HZ)</p>	 <p>d.ComAp AMF 25</p>
<p>9. Support ATS Function</p>	
<p>10. Remote Communications (RS232 &amp; RS485)</p>	
<p>11. Fuel Usage Monitor And Low Level Alarms.</p>	
<p>12. Engine Specific J1939 for All Major Manufacturers</p>	
<p>13. Configurable Display Languages.</p>	
<p>14. Load Switching, Load Shedding&amp;Dummy Load Outputs.</p>	<p>d.ComAp AMF 25</p>
<p>15. Alternative Configuration (50Hz/60Hz)</p>	

## 2.MULTIPLE PARALLELING GEN-SETS WITH INTERNAL LOAD-SHARING CONTROLLER

SUM: Functionality,optimized for ease of use,installation and configuration,includes built-in synchronization and digital isochronous active and reactive load sharer.Native co-operation of up to 32 gen-sets is a standard feature.



### KEY FEATURES:

1. The Most up to 32-set Synchronization	
2. Wide Range of Communication Interfaces - RS232,RS485, USB, Modbus, GSM/Analog Modem,GPRS, Ethernet	
3. Direct Governor & AVR Control	<p>a.DSE 8610</p>
4. kW & kV Ar Load Sharing	
5. Advanced Power Management Function	
Load Dependent Start/Stop	
Load Demand Swap	
Running Hours Equalization	
6. Support of Electronic Controlled Engines (J1939,Modbus)	<p>b.ComAp IC-NT NINT</p>

## 3.SINGLE GEN-SET IN PARALLEL TO MAINS CONTROLLER

SUM: They are integrated controllers combining AMF and paralleling functions for single gen-sets. This combination allows the gen-set with interrupt-free transfers as well as in continuous parallel-to -mains mode.

### KEY FEATURES:

1. Mains (Utility) Failure Detection, Mains (Utility) Power Monitoring (kW, kV Ar, kV A & pf) Monitoring, Mains (Utility) Decoupling Protection, Mains (utility) kW Export Protection.	
2. Remote Communications (RS232, RS485 x2, Ethernet)	
3. High Tariff Avoidance, Peak Shaving, Peak Lopping	<p>a.DSE 8620</p>
4. Synchronization of MCB (Reverse Synchronization)	
5. Support of Electronic Controlled Engines (J1939, Modbus)	
6. Wide Range of Communication Interfaces - RS232, RS485, USB, Modbus, GSM/Analog Modem, GPRS, Ethernet	
	<p>b.ComAp IC-NT SPtM</p>

Generator Set Options and Accessories			
<b>Generator Set Design</b>		<b>Control System</b>	
Open Type	<input type="checkbox"/>	AMF( Automatic Management Function)	<input type="checkbox"/>
Silent Type	<input type="checkbox"/>	ATS( Automatic Transfer System)	<input type="checkbox"/>
Super Silent Type	<input type="checkbox"/>	ASS( Automatics Synchronization System)	<input type="checkbox"/>
Trailer Type	<input type="checkbox"/>	Remote Control Puma	<input type="checkbox"/>
<b>Fuel System</b>		<b>Alternator</b>	
12 Hour Base Tank(single wall)	<input type="checkbox"/>	PMG(EBS) Excitation	<input type="checkbox"/>
24 Hour Base Tank(single wall)	<input type="checkbox"/>	Space Heater	<input type="checkbox"/>
Dual Wall Base Fuel Tank	<input type="checkbox"/>	<b>Preheater System</b>	
Outside Fuel Tank	<input type="checkbox"/>	Coolant Preheater	<input type="checkbox"/>
Automatic Refueling Compensation System	<input type="checkbox"/>	Oil Preheater	<input type="checkbox"/>
<b>Exhaust System</b>		Battery Preheater	<input type="checkbox"/>
Residential Exhaust Silencer	<input type="checkbox"/>		
<b>Circuit Breaker Brand</b>			
CHNT	<input type="checkbox"/>		
ABB	<input type="checkbox"/>		