

## Diesel Generator Set:P450

Standard Features	
MODEL	P450
Standby Power(50Hz)	396KW/495KVA
Prime Power(50Hz)	360KW/450KVA
Engine	PERKINS 2506C-E15TAG1
Alternator	LEROYSOMER TAL-A47-B

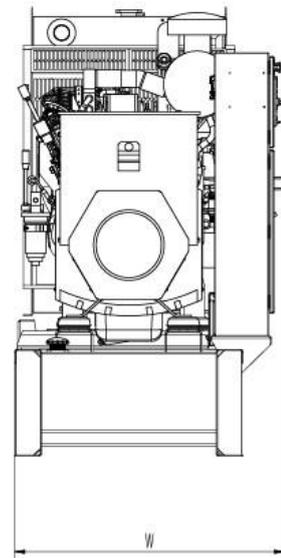
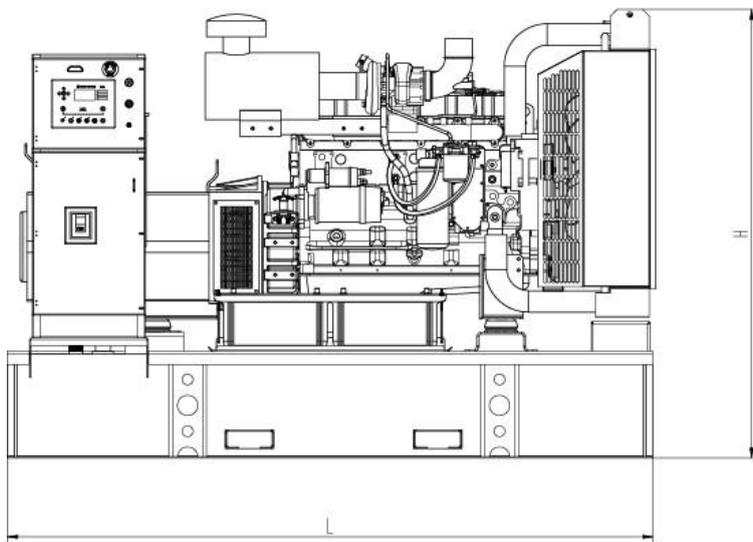
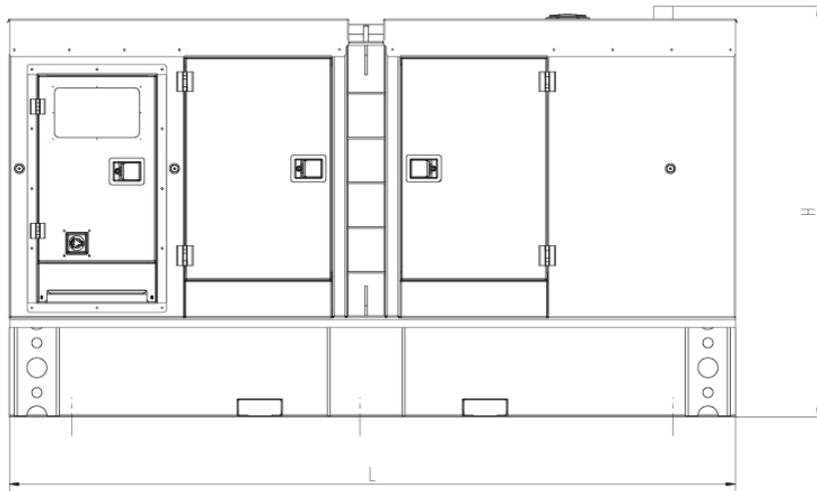
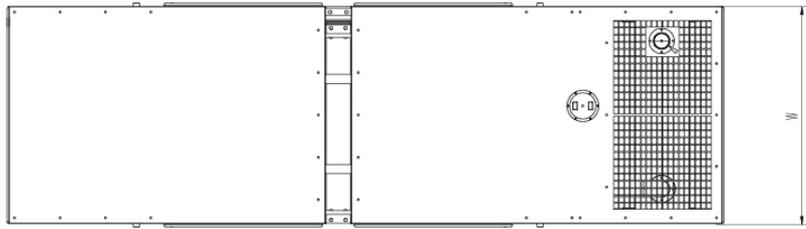
- Standard control panel, Including controller, Operation lighting, Emergency stop button, Buzzer
- Main line circuit breaker
- Two 12V free maintenance battery, battery charger, Battery Ract and Battery Switch
- Industrial silencer, Ripple Flex exhaust pipe, Flange
- Fork lift position and lifting position
- With-8 hours Base Fuel Tank; Fuel Tank Capacity: 800L
- Radiator 50°C max, Fans driven by Belt, with safety Guard
- Hand pump special for take out dirty oil



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	591	396/495	360/450
415/240	50	3	0.8	626	396/495	360/450
400/230	50	3	0.8	650	396/495	360/450
380/220	50	3	0.8	684	396/495	360/450

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	350x137x212 CM
Net Weight/KG For Open Type	3750KGS
Dimension(L*W*H)/CM For Silent Type	480x179x225 CM
Net Weight/KG For Silent Type	4800KGS
Dimension (L*W*H)/MM For Trailer Type	
Net Weight/KG For Trailer Type	



Specification of Engine		
Basic Specific ation	Engine Model	2506C-E15TAG1
	Manufacturer	PERKINS Company
	Prime Power	396KW/531HP
	Standby Power	435KW/583HP
	Engine Configuration	6Cylinder In Line, 4Stroke,Direct Injection
	Gas Feeding Model	Turbocharged, Air to Air
	Bore×Stroke	137×171(MM)
	Displacement	15.2L
	Rated Speed	1500RPM
	Speed Governor	ECM
	Starter Model	24V DC Start
	Cooling System	Water Cool
	Compression Ratio	16:1
Exhaust System	Exhaust Gas Flow	94m <sup>3</sup> /min
	Exhaust Temperature	550℃
	Max Back Pressure	6.8kPa
Air Intake System	Max Intake Restriction	6.2kPa
	Burning Capacity	35.8m <sup>3</sup> /min
	Air Flow	722m <sup>3</sup> /min
Fuel System	Fuel Consumption (Prime Power 100%) Load	99L/H
	Fuel Consumption (Prime Power 75%) Load	73L/H
	Fuel Tank Capacity	800L
Lubricat ion System	Oil Capacity	62L
	Oil Consumption	≤0.1% of Fuel Consumption
	Oil Pressure at Rated RPM	200-420kPa
Cooling System	Total Coolant Capacity	58L
	Thermostat Open Temperature	88-98℃
	Max Coolant Temperature	107℃

### Specification of Alternator

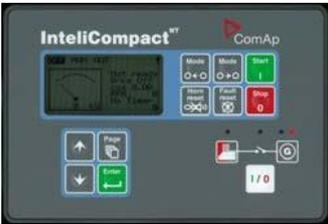
Basic Specification	Alternator Model	TAL-A47-B
	Manufacturer	LEROYSOMER company
	Prime Output	364KW/455KVA
	Standby Output	400KW/500KVA
	Excitation Model	Brushless, Self-Exciting
	Cooling Method	Air Cooling
	Connection Type	3 Phase and 12 Wires "Star" Connection
	Power Factor	0.8
	Protection Class	IP23
	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		

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

**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	
4. kW & kV Ar Load Sharing	a.DSE 8610
5. Advanced Power Management Function	
Load Dependent Start/Stop	
Load Demand Swap	
Running Hours Equalization	
6. Support of Electronic Controlled Engines (J1939,Modbus)	b.ComAp IC-NT NINT
15. Alternative Configuration (50Hz/60Hz)	d.ComAp AMF 25

**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	a.DSE 8620
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		b.ComAp IC-NT SPtM	
<b>Generator Set Options and Accessories</b>			
<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"/>		