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Diesel Generator Set: P45

Standard Features			
MODEL	P45		
Standby Power(50Hz)	40KW/50KVA		
Prime Power(50Hz)	36KW/45KVA		
Engine	PERKINS 1103A-33TG1		
Alternator	LEROYSOMER TAL-A42-F		

- Standard control panel, Including controller, Operation lighting, Emergency stop button, Buzzer
- Main line circuit breaker
- One 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-10 hours Base Fuel Tank; Fuel Tank Capacity: 135L
- Radiator 50[°]C max, Fans driven by Belt, with safety Guard
- Hand pump special for take out dirty oil





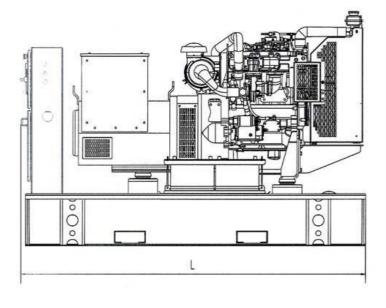
Open Type Silent Type

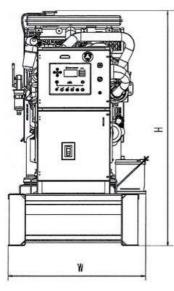
Generator Set Ratings						
Voltage	Frequency	Phase	P.F (COS⊄)	Prime Current Amps	Standby Power (KW/KVA)	Prime Power (KW/KVA)
440/254	50	3	0.8	59	40/50	36/45
415/240	50	3	0.8	62.6	40/50	36/45
400/230	50	3	0.8	65	40/50	36/45
380/220	50	3	0.8	68	40/50	36/45

Prime Power(PRP):Prime power is available for an unlimited number of annual hours in variable load application, in accordance with GB/T2820-97(eqvlSO8528);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	180×76×130 CM
Net Weight/KG For Open Type	700KGS
Dimension(L*W*H)/CM For Silent Type	222×100×130 CM
Net Weight/KG For Silent Type	1250KGS
Dimension (L*W*H)/MM For Trailer Type	
Net Weight/KG For Trailer Type	







Specification of Engine				
	Engine Model	1103A-33TG1		
	Manufacturer	PERKINS Company		
Basic	Prime Power	41.5KW/55.6HP		
	Standby Power	45.6KW/61.1HP		
	Engine Configuration	3Cylinder In Line, 4Stroke, Direct Injection		
	Gas Feeding Model	Turbocharged		
Specific	Bore×Stroke	105×127(MM)		
ation	Displacement	3.3L		
	Rated Speed	1500RPM		
	Speed Governor	Mechanical		
	Starter Model	12V DC Start		
	Cooling System	Water Cool		
	Compression Ratio	17.25:1		
	Exhaust Gas Flow	7.7m³/min		
Exhaust System	Exhaust Temperature	537℃		
Gyoto	Max Back Pressure	10kPa		
Air Intake	Max Intake Restriction	8kPa		
	Burning Capacity	3.1m³/min		
System	Air Flow	53m³/min		
	Fuel Consumption (Prime Power 100%) Load	10.7L/H		
Fuel System	Fuel Consumption (Prime Power 75%) Load	8.2L/H		
	Fuel Tank Capacity	135L		
Lubricat	Oil Capacity	8.3L		
ion	Oil Consumption	≤0.15% of Fuel Consumption		
System	Oil Pressure at Rated RPM	276-414kPa		
	Total Coolant Capacity	10.2L		
Cooling System	Thermostat Open Temperature	82-93℃		
_ ,	Max Coolant Temperature	110℃		

Specification of Alternator				
	Alternator Model	TAL-A42-F		
	Manufacturer	LEROYSOMER company		
	Prime Output	36KW/45KVA		
	Standby Output	40KW/50KVA		
	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	Н		
	Altitude	≤1000m		
	Voltage Regulation,	≤±1%		
	Steady State			
	Telephone	<50		
	Influence Factor			
	Sudden Voltage Warp	≤±1%		
Basic	(100% Sudden Reduce)			
Specification	Sudden Voltage Warp	≤±25%		
	(Sudden Increase)			
	Voltage Stable Time	≤6S		
	(100% Sudden Reduce)			
	Voltage Stable Time	≤6S		
	(Sudden Increase)			
	Frequency Reduce	0-5% adjustable		
	Frequency Regulation,	≤1.5%		
	Stead State	\(\text{110}\)		
	Frequency Waving	≤0.8%		
	Sudden Frequency Warp	 ≤+12%		
	(100% Sudden Reduce)	VT1270		
	Sudden Frequency Warp	≤-10%		
	(100% Sudden Increase)	~-1070		
	Frequency Recovery Time	≤5S		
	(100% Sudden Reduce)	<00		
	Frequency Recovery Time	<50		
	(Sudden Increase)	<5S		
Compliance GB755,BS5000,VDE0530,NEMAMG1-22,IED34-1,CSA22.2 and AS1359 Stands				

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Control Panel System

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:

NET TEXTORES.	
High water Temperature Shutdown	DSE One has Controlled.
2. Low Oil Pressure Shutdown	© 1-44 ©
3. Over Speed Shutdown	MAD D LIX
4. Over Crank Shutdown	a.DSE 6020KII
5. Function as Emergent Stop	Intellitite AMF 20 ComAp
6. Heated Display Option	
7. Breaker Control Buttons on Front Fascia	# No 6 O
8. Alternative Configuration (50Hz/60Hz)	
9.Support ATS Function	b.ComAp AMF 20
KEY FEATURES:	
High Water Temperature Shutdown	
2. Low Oil Pressure Shutdown	☐ DEEP MEA M.MC/THOMACS DEEP FINA
3. Over Speed Shutdown	Generator Voltage L2:12 0 V L2:12 0 V
4. Over Crank Shutdown	U-41 0v
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	75-2
10. Remote Communications (RS232 & RS485)	InteliLite AMF 25
11. Fuel Usage Monitor And Low Level Alarms.	OFF THE LEGAL TEST CONTROL TO THE CONTROL TEST
12. Engine Specific J1939 for All Major Manufacturers	Ø 29 1 PPT 2 13500
13. Configurable Display Languages.	A G O
14. Load Switching, Load Shedding&Dummy Load	
Outputs.	
15. Alternative Configuration (50Hz/60Hz)	d.ComAp AMF 25

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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:

The Most up to 32-set Synchronization Wide Range of Communication Interfaces - RS232,RS485, USB, Modbus, GSM/Analog Modem,GPRS, Ethernet Direct Governor & AVR Control	DECEDENCE CHANGES AND ADDRESS
4. kW & kV Ar Load Sharing	a.DSE 8610
5. Advanced Power Management Function	InteliCompact** ComAp Com
Load Dependent Start/Stop	
Load Demand Swap	
	Color Color
Running Hours Equalization	1/0

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-fee transfers as well as in continuous parallel-to -mains mode.

KEY FEATURES:

KEY FEATURES:		
Mains (Utility) Failure Detection, Mains (Utility) Power Monitoring (kW, kV Ar, kV A & pf) Monitoring, Mains (Utility) Decoupling Protection, Mains (utility) kW Export Protection.	DEEP REALIZATION OF THE NO.	
2. Remote Communications (RS232, RS485 x2, Ethernet)	0 0 0 0	
3. High Tariff Avoidance, Peak Shaving, Peak Lopping	a.DSE 8620	
	InteliCompact ^{WT} ComAp	
Synchronization of MCB (Reverse Synchronization)		
5. Support of Electronic Controlled Engines (J1939,		
Modbus)		
6. Wide Range of Communication Interfaces - RS232,	b.ComAp IC-NT SPtM	
RS485, USB, Modbus, GSM/Analog Modem, GPRS,	B.COMAPTO-NT OF IN	

Ethernet				
Generator Se	et Optic	ons and Accessories		
Generator Set Design		Control System		
Open Type		AMF(Automatic Management Function)		
Silent Type		ATS(Automatic Transfer System		
Super Silent Type		ASS(Automatics Synchronization System)		
Trailer Type		Remote Control Puma		
Fuel System		Alternator		
12 Hour Base Tank(single wall)		PMG(EBS) Excitation		
24 Hour Base Tank(single wall)		Space Heater		
Dual Wall Base Fuel Tank		Preheater System		
Outside Fuel Tank		Coolant Preheater		
Automatic Refueling Compensation System		Oil Preheater		
Exhaust System		Battery Preheater		
Residential Exhaust Silencer				
Circuit Breaker Brand				
CHNT				
ABB				