

### **Features**

- High quality, reliable and complete generating sets.
- Every generating set carries a comprehensive test program which includes 25%, 50%, 75%, 100%, 110% loading test and series protecting function (example: Low oil pressure, High coolant temperature, over current/load etc.) check.
- Easy for operation and maintenance
- Compact structure & high-strength chassis.
- Base frame design incorporates an intergrade fuel tank for at least 8 hours running (up to 650KVA).
- The canopy body painting adopts the HenKel pretreatment process and the base frame painting adopts sandblasting +AkzoNobel powder, the paint warranty period can be 3 years.
- High-performance free-maintenance batteries with isolation switch.
- Anti- vibration pads are mounted between the engine/alternator feet and the base frame.
- Top lifting point and steel base frame with forklift holes, easy for transportation.
- Compliance with international electrical safety standards.
- Complete protection functions and safety labels.
- A large number of matching optional to meet the needs of various customers.









Generating Set Technical Data				
Prime power(Output)	275 kVA/220kW			
Standby power(Output)	303kVA/242kW			
Rated frequency	50 Hz			
Rated speed	1500 rpm			
Rated voltage	400 /230V			
Phase	3			
Power factor	0.8			
Noise level @7m dB(A)(only for silent type)	75			
Engine model	1506A-E88TAG4			
Alternator model	TAL-A46-E			
Fuel consumption of 75% load	45.8Litres/h			
Fuel consumption of 100% load	60.2 Litres/h			
Alexandialala in the fall accions caltanges				

#### Also available in the following voltages:

415/240V, 380/220V, 220/127V, 200/115V (According to customer requirements).

#### Rated Power/prime Power(PRP):

Continuous running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hour period, in accordance with ISO8528.

### Standby Power/Emergency Standby Power (ESP):

The maximum power available during a variable electrical power sequence, no overload on these ratings, in accordance with ISO 8528.

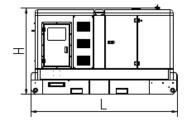


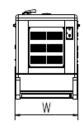


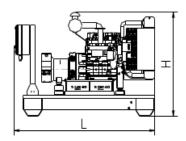
Photos are for reference only

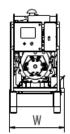
Dimension, Weight, Fuel Tank Capacity				
Generating set model	HPLS275S-1	HPLS275S-1		
Length(L) (mm)	4000	3080		
Width(W) (mm)	1422	1090		
Height(H) (mm)	2190	1730		
Dry weight (kg)	3630	2500		
Tank capacity(L)	850	495		
The loading capacity (40'HC)	3 Sets	6 Sets		

This data sheet is for reference only, Please contact the salesman before ordering.















Engine Specifications				
Engine model & manufa	cturer	1506A-E88TAG4( Perkins)		
Emission Certification				
Number of cylinders		6		
Cylinder arrangement		In-line		
Cycle		Four stroke		
Aspiration		Turbocharged and Air to Air After Cooled		
Bore x Stroke		112 x 149 mm		
Displacement		8.8 Liter		
Compression ration		16.1:1		
Prime power/speed		244 kW/1500 rpm		
Standby power/speed		267 kW/1500 rpm		
Speed governor		ECM		
Cooling system		Forced Water Cooling Cycle		
Frequency droop		≤1%		
Total lubrication system	capacity	41 Liter		
Coolant capacity (engine only)		13.9 Liter		
Fuel consumption 100% load 1		197.9 g/kW.h (at 1500 rpm)		
Starter motor		DC24V		
Charge alternator		DC24V		

- Heavy duty Perkins diesel engine
- Four stroke, water cooled, naturally aspirated
- Direct injection fuel system
- Mechanical governor system
- 12V DC starter and charge alternator
- Replaceable fuel filter and dry element air filter
- Cooling radiator and fan
- Starter battery(with lead acid) including
- Flexible fuel connection hoses
- Industrial capacity exhaust silencer and steel bellows
- Operation manuals and circuit diagram documents

Alternator Specifications						
Alternator model	TAL-A46-E					
Alternator manufacturer		LEROY S	LEROY SOMER			
Rated frequency /Rated speed		50 Hz /1	50 Hz /1500 rpm			
Rated output prime power		275KVA				
Rated voltage		400 V				
Phase		3				
Power factor		0.8				
Efficiency (%)	92.		92.9%			
Exciter type	Self excited, Brushless					
Voltage adjust range	ust range ≥5.0%					
Voltage regulation		≤±1.0%	≤±1.0%			
Insulation grade	н		Н			
Protection grade	IP23		on grade IP23			
Alternator Optional						
Optional alternator brand	Leroy Somer		Mecc alte	MPMC		
Optional alternator model	S4L1S-D41		ECO38 2L4A	LYG 314B		
Exciter type	Self-excited		Self-excited	Self-excited		
Rated output prime power	310kVA		300KVA	275kVA		







## **Control System**

All Polkar generating sets have a control cabinet mounted on the gen-set base frame.

#### NANO3 (ComAp)



Suitable for ≤ 250kVA Gen-sets

### DSE4520 (Deepsea)



Suitable for >250kVA Gen-sets

### DSE7320 (Deepsea)



Suitable for all series Gen-sets

The Controller LCD Display	NANO3 control system	DSE4520 control system	DSE7320 control system	Controller Optional
Voltage between phases(L-L)	$\sqrt{}$	$\sqrt{}$	$\checkmark$	IL-NT-AMF25(ComAp)
Voltage between neutral and phase(L-N)	×	$\sqrt{}$	$\sqrt{}$	County
Frequency	$\checkmark$	$\checkmark$	$\sqrt{}$	Intellific
3 Phase current	$\checkmark$	$\sqrt{}$	$\sqrt{}$	CAN TO THE
Real power(kW) and apparent power(kVA)	$\checkmark$	$\sqrt{}$	$\sqrt{}$	The most on the
Power factor	$\checkmark$	$\checkmark$	$\sqrt{}$	IC-NT-MINT(ComAp)
Engine speed	$\checkmark$	$\sqrt{}$	$\sqrt{}$	InteliCompact** ComAp
Running hours	$\sqrt{}$	V	√	THE RESERVE CO.
Coolant temperature	$\checkmark$	$\sqrt{}$	$\sqrt{}$	
Oil pressure	$\checkmark$	$\sqrt{}$	$\sqrt{}$	1/0
Battery voltage	$\sqrt{}$	$\sqrt{}$	$\checkmark$	DCF9C10/Doomsoo)
LCD alarm indication	$\sqrt{}$	$\sqrt{}$	V	DSE8610(Deepsea)
3 Phase mains (utility) sensing	×	$\sqrt{}$	V	General Victory  13-13 UV
Protecting Functions				<u> </u>
Emergency stop button	$\checkmark$	$\checkmark$	$\sqrt{}$	<b>o o o o o</b>
High coolant temperature	$\checkmark$	$\sqrt{}$	$\sqrt{}$	HCNAC120/SmartSan
Low oil pressure	$\sqrt{}$	$\sqrt{}$	V	HGM6120(SmartGen)
Over current/load	$\checkmark$	$\sqrt{}$	√	Gened Controller
under/over speed, frequency & voltage	$\checkmark$	$\sqrt{}$	√	DE START CONT.
Low/High battery voltage	$\checkmark$	$\sqrt{}$	V	
Low coolant level	Optional	Optional	Optional	

# **Optional:**

Engine	Alternator	Fuel System	Generating Set
<ul><li>Water Jacket</li><li>Preheater</li><li>Oil Preheater</li><li>Oil manual pump</li></ul>	<ul><li>PMG excitation</li><li>Space heater</li><li>Winding temperature measuring</li></ul>	<ul> <li>12 / 24 hour base tank</li> <li>Dual wall base fuel tank</li> <li>Outside fuel tank</li> <li>Automatic fuel feeding</li> <li>Switch between external tank and base tank (three-way valve)</li> </ul>	<ul><li>Tools with the machine</li><li>Trailer</li></ul>



**Generating Set Color:** 

Parts -	Standard Color		Optional Color	
	RAL#	Reference	RAL#	Reference
Base frame	Jet black: RAL9005 RGB: 003/005/010		Blue grey: RAL7031 RGB: 003/005/010	
	Pure white: RAL9010 RGB: 250/255/255		Cream: RAL9001 RGB: 255/252/240	
Canopy	Traffic orange: RAL2009 RGB: 235/059/028		Traffic red: RAL3020 RGB: 199/023/018	
			Melon yellow: RAL1028 RGB: 255/140/026	

**Generating Set Type & Trailer Optional:** 



# Our other related products:



## **Contact Us**

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