



TECHNICAL DATA

MODEL: KP-DS650

DIESEL GENERATING SET

KPS POWER VIET NAM



KP-DS Series

KP-DS650-SR / KP-DS650-OE

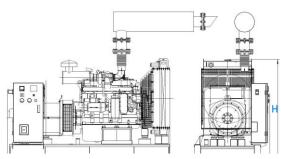


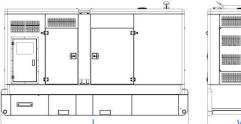
KP-DS650-SR / KP-DS650-OE

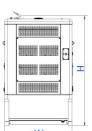
Features

- Compact structure high-strength chassis
- Easy operation and maintenance, Low cost
- Good performance damping system
- Compliance with international electrical safety standards of electrical system
- 8 hours base tank
- High-performance maintenance-free batteries with isolation switch
- 50 $^\circ\!\mathrm{C}$ radiator
- Top lifting, Forklift bottom hole design, easy to transport
- Industrial type muffler
- Noise reduction structure, Low overall noise
- Convenient power output interface and ATS Interface
- IP56 (control system)
- The personalized design for user .Structure type genset Optional: Open (KP-DS650-OE)

Sound-proof (KP-DS650-SR)







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Dimension and Weight		
Generating set model	KP-DS625-OE	KP-DS625-SR
Length(L) (mm)	3770	4600
Width(W) (mm)	1388	1622
Height(H) (mm)	2075	2515
Dry weight (k g)	4500	5500
Tank capacity (L)	1400	1400

Reference images, the actual shall prevail





Genset Technical Data	
Output frequency	50 HZ
Rated speed	1500 rpm
Prime power	650KVA
Standby power	700KVA
Rated voltage	400 V
Phase	3
Noise dB(A) @7m	80
Engine model	DP180LB
Alternator model	KP670F
Fuel consumption of 100% load	136.4 Litres/h
Fuel consumption of 110% load	149.5 Litres/h
Voltage regulation rate	≤±1%
Random voltage variation	≤±1%
Frequency regulation rate	≤±5%
Random frequency variation	≤±0.5%



<u>ISO9001:2008</u> MPMC Generating Sets









Engine Specifications			
Engine model	DP180LB		
Engine manufacturer	DOOSAN		
Number of cylinders	10		
Cylinder arrangement	V Туре		
Cycle	Four strokes		
Aspiration	Turbocharged & Intercooled (air to air)		
Bore x Stroke (mm x mm)	128 x 142		
Displacement (Liter)	18.273		
Compression Ratio	15:1		
Prime power/speed (kW/RPM)	556 KW / 1500rpm		
Standby power/speed (kW/RPM)	612 KW / 1500rpm		
Speed governor	Electrical		
Cooling system	Forced Water Cooling Cycle		
Steady speed droop (%)	<1%		
Total lubrication system capacity (L)	34L		
Coolant capacity (L)	91L		
Fuel consumption at 100% load (g/kWh)	196g/kwh		
Starter motor	DC24V		
Alternator	DC24V		
Alternator Specifications			
Rated frequency	50 Hz		
Rated speed	1500 rpm		
Alternator model	KP670F		
Rated output prime power	670KVA		
Efficiency (%)	96%		
Phase	3		
Rated voltage	400 V		
Exciter type	Self excited, Brushless		
Power factor	0.8		
Voltage adjust range	≥5.0%		
Voltage regulation NL-FL	≤±1.0%		
Insulation grade	Н		
Protection grade	IP23		
Xd DIR. AXIS SYNCHRONOUS	1.50		
X'd DIR. AXIS TRANSIENT	0.15		
X''d DIR. AXIS SUBTRANSIENT	0.10		
Xq QUAD. AXIS REACTANCE	0.72		
X''q QUAD. AXIS SUBTRANSIENT	0.16		
Optional			
Optional Alternator brand			
Optional Alternator model			
Exciter type			
Rated output prime power			











Control System DATAKOM (Standard)

All KPS Gensets have a control cabinet (the Datakom control module DKG 309 as standard) mounted on isolated support.

Main Features

- Manual and automatic mode
- Parameter configuration via USB interface
- Remote control automatic start/shutdown
- Optional ECU control
- Optional CAN engines
- Optional speed sensor access
- Operating temperature: -30 $^\circ \! \mathbb{C}$ to 70 $^\circ \! \mathbb{C}$
- IP56 Rating
- Back-lit icon LCD display
- Power Save mode
- CAN and Magnetic Pick-up/Alt. versions available (specify on
- ordering)
- PC configurable
- 6 Digital inputs
- 4 Outputs (2 configurable on Magnetic Pick up/Alt., 4 configurable

on CAN version)

The control module display

- Generator voltage
- Generator frequency
- Battery voltage
- Engine speed
- Load current (Panel Meter)
- Engine run-time Hours
- Engine oil pressure (Panel Meter)
- Engine coolant temperature (Panel Meter)



Protecting Functions

- Over frequency / under frequency
- Over voltage / under voltage
- Over speed /under speed
- Over current
- Emergency stop
- Low oil pressure
- High water temperature
- Failure to start/Failure to stop
- Battery charger failure
- Comprehensive shutdown or warning on fault condition





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Control System

NSM-160-7320 (Optional)

NSM-30-7320 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 8 outputs. 8 inputs are configurable and 6 outputs are configurable.

• 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.

 Add DSE890 module, internet network monitoring can be realized.

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



The control module display

- Generator voltage
- Generator frequency
- Battery voltage
- Engine speed
- Load current
- Generator KVA, KW, PF
- Engine run-time Hours
- Engine oil pressure
- Engine coolant temperature
- Real time clock for time and date, overall runtime





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Optional

KP-DS Series

Engine

Alternator

- PMG excitation
- Space heater
- Winding Temperature Measuring

Generator Set

•Tools with the machine Coolant (-30°C)

Control System

- AMF function
- ATS control cabinet
- •Double-frequency and double voltage • Single phase
- ABB MCCB

Fuel System

- 12 / 24 hour base tank (single wall)
- Dual wall base fuel tank
- Outside fuel tank
- Automatic fuel feeding
 Fuel level indicate

Canopy

- Hired type









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Contact Us

KPS POWER VIETNAM

Manufacture: 44/17 Quang Phat, Quang Tien, Trang Bom Dist, Dong Nai, Vietnam Tel: 0251 - 6 55 39 55 Hotline: 094 232 55 22 <u>HCM Branch</u>: 40 Binh Phu St., Tam Phu Ward, Thu Duc Dist, HCMC, Vietnam Tel: 028 – 6683 7858 Hotline: 0916 432 559 <u>Hanoi Branch</u>: 30 Dai Tu St., Dai Kim Ward, Hoang Mai Dist, HCMC, Vietnam Tel: 024 – 6253 7450 Hotline: 0968 066 805 Email: info@kpspower.vn Website: www.kpspower.vn

KPS reserves the right to make changes in model, technical specification, color, configuration and accessories without prior notice. Please contact the salesman before ordering.

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