

# **TECHNICAL DATA**

**MODEL: KP-YD22** 

**DIESEL GENERATING SET** 

**KPS POWER VIET NAM** 

**50HZ** 

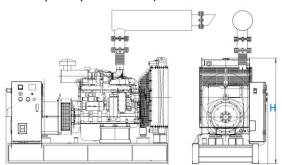


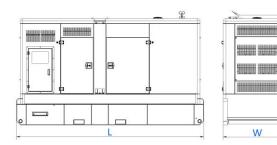


### KP-YD22-SR / KP-YD22-OE

#### **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°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-YD22-OE)
   Sound-proof ( KP-YD22-SR )





Dimension and Weight		
Generating set model	KP-YD22-OE	KP-YD22-SR
Length(L) (mm)	1600	2100
Width(W) (mm)	740	916
Height(H) (mm)	980	1250
Dry weight (k g)	610	800
Tank capacity (L)	50	50

#### Reference images, the actual shall prevail





Genset Technical Data		
Output frequency	50 HZ	
Rated speed	1500 rpm	
Prime power	20KVA	
Standby power	22KVA	
Rated voltage	380/220 V	
Phase	3	
Noise dB(A) @7m	70	
Engine model	YSD490D	
Alternator model	KP144S	
Fuel consumption of 100% load	4.5 Litres/h	
Fuel consumption of 110% load	5.0 Litres/h	
Voltage regulation rate	≤±1%	
Random voltage variation	≤±1%	
Frequency regulation rate	≤±5%	
Random frequency variation	≤±0.5%	













### **KP-YD Series**

Engine Specifications		
Engine model	YSD490D	
Engine manufacturer	Yangdong	
Number of cylinders	4	
Cylinder arrangement	In-line	
Cycle	Four stroke	
Aspiration	Natural Aspiration	
Bore x Stroke (mm x mm)	90 x100	
Displacement (Liter)	2.545	
Compression Ratio	18:1	
Prime power/speed (kW/RPM)	19/1500	
Standby power/speed (kW/RPM)	21/1500	
Speed governor	Mechanical	
Cooling system	Forced Water Cooling Cycle	
Steady speed droop (%)	≤5%	
Total lubrication system capacity (L)	12	
Coolant capacity (L)	16	
Fuel consumption at 100% load (g/kWh)	252g/kwh (at 1500RPM)	
Starter motor	DC12V	
Alternator	DC12V	
Alternator Specifications		
Rated frequency	50 Hz	
Rated speed	1500 rpm	
Alternator model	KP144S	
Rated output prime power	20kVA	
Efficiency (%)	90.3%	
Phase	3	
Rated voltage	380/220 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 ℃ to 70 ℃
- 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













# **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















# **Optional**

#### **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 feedingFuel level indicate

#### Canopy















### **Contact Us**

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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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