



**Model :**  
**KDP-450/S**

PRP		ESP		Standby	Voltage/Ph	Hz/rpm	PF
kW	kVA	kW	kVA	Amps			
<b>360</b>	<b>450</b>	<b>400</b>	<b>500</b>	<b>722</b>	<b>400/3Ph</b>	<b>50/1500</b>	<b>0.8</b>

### Prime power

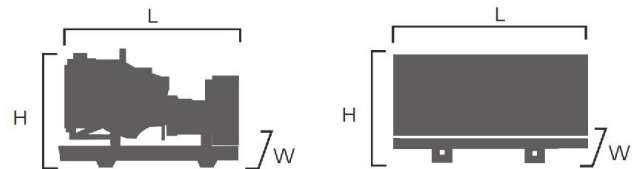
According to ISO8528-1, prime power is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per year, between stated maintenance intervals. The permissible average power output during at 24 hours period shall not exceed 80% of the prime power. 10% overload available for governing purposes only.

### Standby power

According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. No overload capability is available.

### Diesel Generator Set

Engine Make /Model	<b>PERKINS 2506C-E15TAG1</b>
Alternator Make /Model	Brushless, self-exciting
Control Panel	Smartgen HGM6110N
Base Frame / Silent Canopy	Robust Structure/ Corrosion Resistant
Circuit Breaker Type	3pole MCCB (4P Available as option)
Built in Base Fuel Tank Capacity	8-12hrs
Battery	Maintenance free Lead Acid



### Fuel Consumption (L/H)

100% Standby power	114.0
100% Prime power	106.0
75% Prime power	81.0
50% Prime power	55.0

### Dimension and Weight

Dimension	Open	Silent
Length (L)	3500mm	4900mm
Width (W)	1200mm	1800mm
Height (H)	2100mm	2150mm
Net Weight	3600KG	5076KG

## § Engine and Alternator Specification

Engine	
Engine Brand /Model	<b>PERKINS 2506C-E15TAG1</b>
Engine type	4-stroke diesel
Governor type	ECM
Injection	Direct Inject
Aspiration	Turbocharged, Air to Air after cooled
Number of cylinders & arrangement	6-L
Bore*Stroke	137*171mm
Rated speed	1500rpm
Rated Power	412kW
Displacement	15L
Compression Ratio	16.0:1
Engine oil capacity	62L
Total coolant capacity	58L

Alternator	
Number of phase	3
Power factor (Cos Phi)	0.8
Poles	4
Winding Connections (standard)	Star-serie
Terminals	12
Insulation type	H class
Winding Pitch	2/3
IP rating	IP23
Excitation system	Self-excited
Bearing	Single bearing
Coating	Vacuum impregnation
Voltage regulator	A.V.R
Couping	Flexible disc

## § Controller

### Configuration

- § Emergency stop button
- § Protection MCB
- § Battery charger
- § Integrated aviation plug
- § ATS connection
- § Digital control module



### Main Features

- § Automatic mains failure
- § Engine control, Generator protection
- § Built in alarms and warnings
- § Remote Start operation available
- § Daily / weekly / monthly exerciser
- § Weekly operation schedule programs
- § Fuel pump control
- § Mains simulation
- § Block heater control
- § Field adjustable parameters
- § Free MS-Windows Remote monitoring
- § LED displays
- § Configurable analogue inputs
- § I/O expansion capability

### Genset Option Features

- § Battery charge
- § Engine heater
- § Daily fuel tank
- § Auto Transfer Switch( ATS)
- § Parallel control panels
- § Circuit Breaker MCCB & ACB
- § Remote Control Panel
- § Weatherproof/soundproof Canopy
- § Trailer type Gensets

### Quality Standards

- § ISO9001:2000,ISO14000,ISO3046
- § ISO8528 BS4999
- § BS5514,AS1359,ICE34
- § CE Compliance

**Koten Power** reserves the right to modify the characteristics of its product at any time in order to incorporate the latest technological developments. The information contained in this document may therefore be changed without notice. For more technical data.