





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

Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 8528. Fuel Stop power in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

#### Prime Power (PRP):

Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528. Ten percent overload capability is avai lable in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

#### Continuous Power (COP):

Applicable for supplying power continuously to a constant electrical load for unlimi ted hours. Continuous Power (COP) in accordance with ISO 8528, ISO 3046, AS 2789, DIN6271 and BS 5514.

#### Keypower generators are CE certified and conform to the following Directives:

- EN 12100: 2010, EN ISO 8528-13: 2016, EN 60204-1: 2018, EN 61000-6-2: 2019, 2006/42/CE Machinery safety
- · 2014/35/EU Low voltage
- · 2014/30/EU Electromagnetic compatibility
- Power according to ISO 8528 and ISO 3046
- Ambient reference conditions 1000 mbar, 25°C, 30% relative humidity. Information based on standard specification equipment unless otherwise stated.

GENERATOR MODEL			KP-YC625P		
	Generator specifications		PRP	ESP	
•	Power	kW/kVA	500/625	550/687.5	
2	Rated speed	r.p.m.	1500		
Ø	Available voltages	V	380~415		
50/60 HZ	Frequency	Hz	50		
<b>3</b> PH	Phase		3-PH		
ā	Power factor	Cosφ	0.8		
à	Fuel cons 100%	L/H	143.2		
	Starting power	kW	7.5		
âń	Recommended battery	Ah	100		
	Number of batteries			4	
	Auxiliary voltage	VDC	24V		







WATER-COOLED 1))

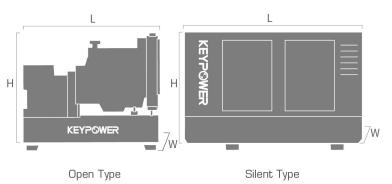








# **Dimension and Weight**



DII	MENSION		OPEN TYPE	SILENT TYPE
	Length (L)	mm	3600	5100
₩	Width (W)	mm	1400	1900
M H	Height (H)	mm	2250	2430
Kg	Dry weight	kg	4400	5560
	Fuel tank	L	NA	500

KEYPOWER has the right to modify any feature without prior notice. Weights and dimensions based on standard products. Illustrations may include optional equipment. Technical data described in this catalogue correspond to the available information at the moment of printing. The illustrations and images are indicative and may not coincide in their entirety with the product. Industrial design under patent.







## **ENGINE** YUCHAI® Engine model YC6TD840-D31 Number of cylinders Cylinder arrangement Vertical, In-Line Cycle 4 stroke Turbocharged, air-air Aspiration intercooled Bore × Stroke 152\*180mm 19.6 L Displacement Compression ratio 14:1 Prime power/Speed 561/1500 (kW/rpm) Standby power/Speed 616/1500 (kW/rpm) ECU Speed governor Cooling system (open type) 40°C tropical radiator Cooling system (silent type) 50°C tropical radiator

# **Engine Specifications**

ENGINE	YUCHAI®
Total lubrication system capacity	56 L
Coolant capacity (with radiator)	130.5 L
Speed stability (%)	≤3%
Start type	Electrical
Maximum exhaust temperature	550°C
Exhaust gas flow	116.2 m³/min
Maximum allowed back pressure	10 kPa
Intake air flow	38.1 m³/min
Cooling air flow	TBA
Consumption @ 100% load ESP	163.8 L/H
Consumption @ 100% load PRP	143.2 L/H
Consumption @ 75% load PRP	103.8 L/H
Consumption @ 50% load PRP	71.3 L/H



## Features:

- Diesel engine
- 4-stroke cycle
- Water-cooled

- Dry air filter
- Radiator with pusher fan
- Moving parts protection
- Radiator water level sensor (Optional)
- 55 degree radiator (Optional)

- Jacket coolant heater (Optional)
- Lube oil heater (Optional)
- Engine filter heater (Optional)
- Fuel inlet line heater (Optional)
- Heavy duty air filter (Optional)



# **Alternator Specifications**

ALTERNATOR	
Exciter type	Brushless, self-excited
Power factor	0.8
Voltage adjust range	≥5%

ALTERNATOR	
Voltage regulation NL-FL	≤±1.0%
Insulation grade	Н
Protection grade	IP23



## **Options:**

- AREP/PMG/EBS
- Air inlet filter (5% deration)
- louver (5% deration)

- Space heater
- Digital AVR
- Severe environmental impregnation
- Stator sensor
- PT100

- Rotor sensor
- Double bearing
- Drip proof cover
- Terminal box IP44
- · Double bearing

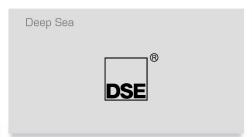






## **Controller Brands**













# **Controller Functions**

OPTIONAL CONFIGURATION	Stand-alone Basic	Stand-alone Advanced	Synchronization Basic	Synchronization Advanced
Voltage between phases	•	•	•	•
Voltage between neutral and phase	•	•	•	•
Current intensities	•	•	•	•
Frequency	•	•	•	•
Apparent power (kVA)	•	•	•	•
Active power (kW)	•	•	•	•
Reactive power (kVAr)	•	•	•	•
Power factor	•	•	•	•
Coolant temperature	•	•	•	•
Oil pressure	•	•	•	•
Battery voltage	•	•	•	•
R.P.M.	•	•	•	•
Battery charge alternator voltage	•	•	•	•
High water temperature by sensor	•	•	•	•
Low oil pressure by sensor	•	•	•	•
Unexpected shutdown	•	•	•	•
Fuel storage by sensor	•	•	•	•
Stop failure/Start failure	•	•	•	•
Overspeed/Underspeed	•	•	•	•

lacktriangle Standard  $\bigcirc$  Optional



OPTIONAL CONFIGURATION	Stand-alone Basic	Stand-alone Advanced	Synchronization Basic	Synchronization Advanced
Emergency stop	•	•	•	•
High/Low frequency	•	•	•	•
High/Low voltage	•	•	•	•
Short-circuit	•	•	•	•
Incorrect phase sequence	•	•	•	•
Inverse power	•	•	•	•
Overload	•	•	•	•
Total hour counter	•	•	•	•
Kilowatt meter	•	•	•	•
Starts valid counters	•	•	•	•
Maintenance	•	•	•	•
USB	•	•	•	•
Software for PC	•	•	•	•
Alarm history	•	•	•	•
External start	•	•	•	•
Start inhibition	•	•	•	•
Mains failure start	•	•	•	•
Pre-heating engine control	•	•	•	•
Fuel transfer control	•	•	•	•
Engine temperature control	•	•	•	•
Programmable alarms	•	•	•	•
Genset start function in test mode	•	•	•	•
Programmable outputs	•	•	•	•
Multilingual	•	•	•	•
RS485		•	•	•
Modbus IP		•	•	•
J1939		•	•	•
Synchronization			•	•
Mains synchronization				•
Fuel level (%)	0	0	0	0
Low water level	0	0	0	0
GSM/GPRS modem	0	0	0	0
Remote screen	0	0	0	0

● Standard ○ Optional



