



# Power



Images are for illustration purpose only



### ENGINE

YANGDONG heavy duty diesel engine  
4-cycle, water cooled, naturally aspirated engine with direct injection  
12 Volt starter motor and charge alternator with battery, rack and cables  
Replaceable air, fuel and oil filter  
Industrial type radiator  
Flexible fuel piping  
Oil sump drain valve and extension pipe  
Industrial/Residential type exhaust silencer.

Maintenance free battery

Jacket Water Heater

Diesel gen-set maintenance and operating instructions and electrical circuit diagram

### ALTERNATOR

Brushless, single bearing, 4-pole alternator coupled with flexible disc coupling

H type insulation class

IP 21-23 protection

Self exciting

Electronic AVR

### CONTROL PANEL

DSE mains sensing or remote start control module

Emergency stop push button

Output circuit breaker

Static battery charger

Ready for remote monitoring

### CANOPY

Modular type sound-proof canopy

Built from galvanized steel and epoxy, polyester powder painted

Lockable doors on both sides of canopy designed for easy access to essential replacement parts

Emergency stop push button

Control Panel viewing window

Bunded base fuel tank (Optional)

Forklift Pockets

Power cable entry with a gland plate

### Standby Power

Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source.

Overloading is not allowed.

### Prime Power

The maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load. Average load should be 70%. The generator can be overloaded 10% for 1 hour per 12 hrs.

### Base Power

Continuous power rating is used in applications where supplying power is at a constant 100% load for an unlimited number of hours.



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MODEL		EAY22	EAY30	EAY44	
OUTPUT	Standby	kVA	22	30	44
		kW	18	24	35
	Prime	kVA	20	27	40
		kW	16	22	32
ENGINE	Engine		Yangdong	Yangdong	Yangdong
	Model		YD485D	Y490D	Y4105D
	Configuration		INLINE	INLINE	INLINE
	No. of Cylinders		4	4	4
	Speed	rpm	1500	1500	1500
	Displacement	l	2.156	2.67	4.87
	Bore x Stroke	mm	85 x 95	90 x 105	105 x 118
	Compression Ratio		18:1	18:1	18:1
	Aspiration		Natural	Natural	Natural
	Governor Type		Electronic	Electronic	Mechanical/Electronic
	Cooling		Water	Water	Water
	Coolant Capacity	l	12.5	14	15.1
	Lubrication Oil Capacity	l	5.5	8	13
	Fuel Consumption l/h	100%Load	5	6.43	9
75% Load		4	5.77	7	
50%Load		3	4.81	5	
ALTERNATOR	Phase		3	3	3
	Pole		4	4	4
	No. of Leads		12	12	12
	Excitation System		AVR	AVR	AVR
	Insulation Class		H	H	H
	IP Protection		IP23	IP23	IP23
	Power Factor		0.8	0.8	0.8
	Frequency	Hz	50	50	50
	Voltage	V	400	400	400
SIZE	Canopy Set Dimensions (LxWxH) & Weight	mm	1950 x 900 x 1340	1950 x 900 x 1340	2300 x 1000 x 1545
		kg	605	675	880
	Open Set Dimensions (LxWxH) & Weight	mm	1600 x 900 x 1190	1600 x 900 x 1190	1900 x 1000 x 1330
		kg	420	492	670
	Fuel Tank Capacity	l	82	82	101

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### CONTROL MODULE

DSE 7 Series Control Module

State of the art microprocessor controlled

4line, 64 x 132 pixel display LCD display

Automatic mains failure sensing

Front panel manual programming

User friendly setup and button layout

Remote start

Event logging, showing date and time

Stop/Reset, Manual

#### Displays

Engine Speed (rpm)

Oil pressure

Fuel Level (%)

Coolant temperature

Running Hours

Battery voltage monitoring

Generator Voltage (LL. LN)

Generator Current (L1-L2-L3)

Generator Frequency (Hz)

Generator Load & Power Monitoring (kW. kVA.

kVAr. pf)

Mains Voltage (LL. LN)

Mains Frequency

Generator Set Ready

Mains Ready



#### Alarms

High coolant temperature

Low Fuel Level

Low oil pressure

Charge failure

Battery Low/High voltage

Fail to start

Fail to stop

High/Low Generator voltage

Generator Over/Under frequency

Generator Over/Under Speed

