

## TECHNICAL SPECIFICATIONS

### STANDBY POWER

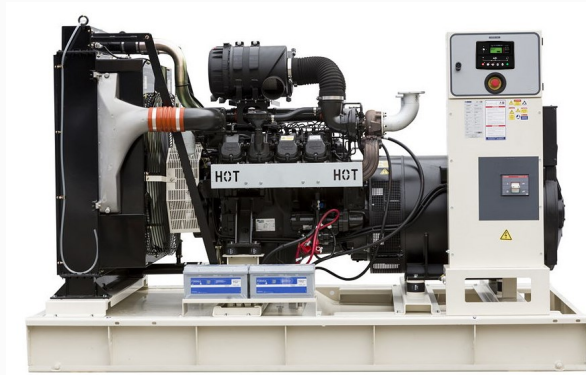
Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. Overload is not allowed.

### 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.

### CONTINUOUS POWER

Continuous power rating is used in applications where supplying power is at a constant 100% load for an unlimited number of hours each year. Continuous power rated units are most widely used in applications where the power grid is unreachable.



### ENGINE

- DOOSAN heavy duty diesel engine
- 4-cycle, water cooled, naturally aspirated or turbocharged
- 24 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
- Residential type exhaust silencer.
- Maintenance free battery
- Jacket Water Heater

### 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 7 Series 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 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 (Optional)



EA Power Systems Ltd.

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MODEL		EAD580	EAD633	EAD708	
OUTPUT	Standby	kVA	580	633	708
		kW	464	506	566
	Prime	kVA	526	574	641
		kW	420	459	512
ENGINE	Engine		DOOSAN	DOOSAN	DOOSAN
	Model		DP158LD	DP180LA	DP180LB
	Configuration		V	V	V
	No, of Cylinders		8	10	10
	Speed	rpm	1500	1500	1500
	Displacement	l	14,6	18,3	18,3
	Bore x Stroke	mm	128 x 142	128 x 142	128 x 142
	Compression Ratio		15:1	15:1	15:1
	Aspiration		Turbocharged		
	Governor Type		Electronic		
	Cooling		Water		
	Coolant Capacity	l	79	91	91
	Lubrication Oil Capacity	l	22	34	34
	Fuel Consumption l/h	100%Load	127,8	135,4	149,5
75% Load		91,1	100,3	113,6	
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 & Fuel Tank Capacity	mm	5000 x 1650 x 2250	5000 x 1650 x 2250	5360 x 1650 x 2250
		kg	4515	4760	4977
		l	900	900	970
	Open Set Dimensions (LxWxH) & Weight & Fuel Tank Capacity	mm	3300 x 1650 x 1970	3300 x 1650 x 1970	3500 x 1650 x 2250
		kg	3460	3705	3872
		l	900	900	970

EA Power Systems reserves the right to make changes in model, technical specifications, color, equipment & accessories without prior notice

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## CONTROL MODULE

### Standard Specifications

- 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, Auto, Test, Start, buttons, toggle display button

### Displays

- Engine Speed (rpm)
- Oil pressure.
- 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 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

### Shut Downs

- Fail to start,
- Emergency stop
- Low oil pressure,
- High coolant temperature
- Generator Over/Under frequency,
- Generator Over/Under Speed
- High/Low Generator voltage
- Oil pressure sensor open