

## 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		EAD400	EAD450	EAD507	
OUTPUT	Standby	kVA	400	450	507
		kW	320	360	405
	Prime	kVA	350	400	459
		kW	280	320	367
ENGINE	Engine		DOOSAN	DOOSAN	DOOSAN
	Model		P158LE-1	P158LE	DP158LC
	Configuration		V	V	V
	No. of Cylinders		8	8	8
	Speed	rpm	1500	1500	1500
	Displacement	l	14,6	14,6	14,6
	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	88,5	88,5	79
	Lubrication Oil Capacity	l	35	35	22
	Fuel Consumption l/h	100%Load	78,7	83,7	110,9
75% Load		58,4	60,3	80,5	
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 & Fuel Tank Capacity	mm	4700 x 1650 x 2250	4700 x 1650 x 2250	4700 x 1650 x 2250
		kg	3855	3915	4285
		l	780	780	780
	Open Set Dimensions (LxWxH) & Weight & Fuel Tank Capacity	mm	3000 x 1650 x 1970	3017 x 1650 x 1970	3094 x 1650 x 1970
		kg	2850	2910	3280
		l	780	780	780

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