



EDD-870

Gen - Set

TECHNICAL DATA SHEET

Engine Specifications

Manufacture	Doosan
Engine Model	DP222LA
No. of Cylinders	12 Cylinders - V type
Cycle	4 strokes
Aspiration	Turbocharged After cooled
Cooling Method	Water Cooled
Governing Type	Electronic
Governing Class	G2- ISO 8528 Part 1
Compression Ratio	15:1
Displacement	21.9 L
Bore/Stroke	128 x 142 mm
Dynamic Charging Alternator	45 AMP, 24V

Alternator Specifications

Manufacture	Leroy Somer
Alternator Model	TAL-A49-B
Number of Poles	4
Number of winding leads	6
Type of Bearing	Single Bearing
Ingress Protection Rating	IP 23
Insulation Class	Cont. H – 125/40°C
Excitation System	Self-Excited
AVR	R150

Output Rating

Prime		Standby	
1500 RPM - 50 Hz , 400 V , 3Ph			
- Kw	- Kva	- Kw	- Kva
1800 RPM – 60 Hz , 480 V , 3Ph			
632 Kw	790 Kva	699 Kw	874 Kva



GENERAL SPECIFICATIONS

Rating:

- **Prime Rating:**
Unlimited hours usage, with an average load factor of 80% over each 24 hour period. 10% overload is available for 1 hour in every 12 hours operation. Overload is permitted on standby power.
- **Standby Rating:**
Limited to 500 hours annual usage, with an average load factor of 80% of the published standby power rating over each 24 hour period. Up to 300 hours of annual usage may be run continuously. No overload is permitted on standby power.

Engine:

Doosan engine

Alternator:

Brushless AC alternator

Circuit Breaker:

3 Pole LS MCCB





Control System



DSE 6120 MKII

AUTO STAR &
AUTO MAINS
FAILURE

- Large back-lit text display
- Multiple display languages
- DSENet® expansion compatible
- Data logging facility
- Fully configurable via PC using USB communication
- Front panel configuration
- Efficient power save mode
- 3 phase generator sensing
- Accumulated power monitoring (kW h, kVA h, kVAR h)
- Generator/load current monitoring and protection
- IP65 rating (with optional gasket) offers increased resistance to water ingress
- Generator overload protection (kW)
- Breaker control via fascia buttons
- Fuel and start outputs, configurable when using CAN
- 4 configurable DC outputs
- 4 configurable analogue/digital inputs
- Automatically transfers between mains (utility) and generator(DSE 6120MKII only)
- Increased input and output expansion capability via DSENet®
- IP65 rating (with optional gasket) offers increased resistance to water ingress

Dimensions

Type	Length (mm)	Width (mm)	Height (mm)	Fuel Tank (L)	Weight (KG)
Open	4000	1700	2070	750	4590
Close	4900	1700	2700	750	5335



Acoustic Enclosure Specifications

Enclosure Type	Acoustic & Weather Proof
Drainage	Fuel and Water Drainage Provision
Transportation	Tested Single Point Lifting Facility & Forklift Pockets
Ingress Protection Rating	IP 23
Lifting	ISO Standard Lifting
Canopy RAL Color	TAL 9010
Base frame RAL Color	RAL 9011
Noise Pressure level @ 7m	86 dB @ 7 m

Fuel System

Recommended Fuel	Class A2 Diesel
Fuel Consumption Standby	179.9 L/hr
Fuel Consumption 100% PRP	161.7 L/hr
Fuel Consumption 75% PRP	120.4 L/hr
Fuel Consumption 50% PRP	82.6 L/hr

ISO 3046, BS 5514, DIN 6271, NEM -MGI, DIN EN, BS 5000, IEC 60034, IEC 60947-2