



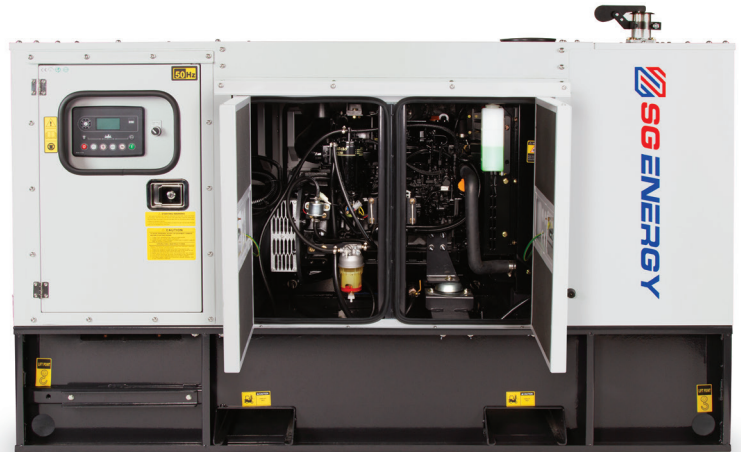
**SG ENERGY**

**SOLAR MATE**

# P22.1 Solar backup diesel generator

## Main Features:

Standby Power (kVA)	<b>22</b>
Prime Power (kVA)	<b>20</b>
Fuel Capacity (L)	<b>150</b>
Fuel Usage (L/per hr)	<b>6.3</b>
External Lockable Fuel Fill	<b>No</b>
Voltage (V)	<b>240</b>
Electrical Phase	<b>Single</b>
Rated Speed (RPM)	<b>1500</b>
Power Factor	<b>0.8</b>



Powered by: Yanmar 4TNV84T-GGFC



Alternator: Dingol 184G



DSE 6120 Control Panel



Melbourne • Canberra • Sydney • Newcastle • Brisbane • Perth

**1300 791 484**

sales@sgenergy.com.au

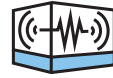
## Standard Features:



Galvanised steel acoustic canopy



Control panel viewing window



Sound proofing – Rockwell



Fully bunded base frame



Quality powder coated finish



Stainless steel external fixtures and fittings



Integrated fork pockets



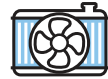
Long running integrated diesel tank



Lockable maintenance access doors



Mechanical and hot component guards



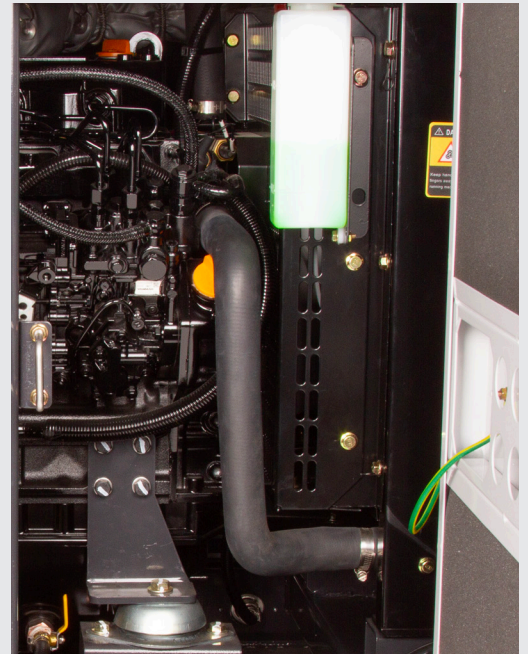
50°C Cooling Package



2 Year Standby App. Warranty

## Engine Specifications:

Manufacturer	Yanmar
Model	4TNV84T-GGFC
Engine Type	4 Cylinder In-line
Injection Type	Direct Injection
Aspiration Type	Turbocharged
Bore and Stroke	84 x 90 mm
Fuel Consumption 100% PRP	6.3 l/hr
Displacement	1.995 L
Compression Ratio	18.9:1
Fuel System	BYC/GAC



### Alternator:

Manufacturer	Dingol
Model	184F
Protection Rating	IP22
Poles	4
Insulation	H Class
Voltage Regulator	AVR

### Control Panel:

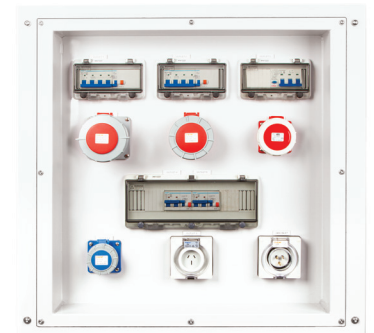
DSE 6120 Control Panel (Standard)

### MCB Rating:

NM1-125H/2300-100A

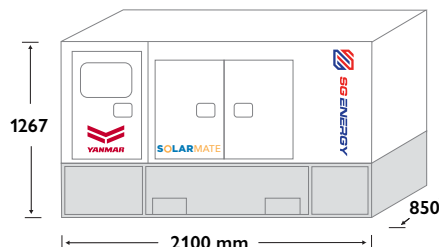
### Outlets:

Configurable to requirements



### Dimensions:

Length	2100 mm
Width	850 mm
Height	1267 mm
Weight	870 kg



**Standby Power:** This rating is for the supply of continuous electrical power, at variable load in the event of a utility power failure. No overload is permitted to standard reference conditions ISO 8528.

**Prime Power:** This rating is for the continuous electrical power, at variable load, in lieu of commercially purchased power. There is no limitation on the annual hours of operation and 10% over load power can be supplied for 1 hour in 12.

**SG Energy** 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 brochure corresponds to the available information at the moment of publication. The illustration and images are indicative and may not coincide in their entirety with the product.



**12**

**MONTHS  
2,000 HOURS**

### **PRIME POWER APPLICATIONS**

The warranty period on Prime Power Applications is 12 months from the date of start-up, limited to 2,000 hours.

**24**

**MONTHS  
500 HOURS YEAR**

### **STANDBY POWER APPLICATIONS**

The warranty period on Standby Power Applications is 24 months from the date of start-up, limited to 500 hours per year.

SG Energy Power Products warrants new electric power generation products sold by it to be free of defects in material and workmanship. The warranty is subject to the following:

## **The User's Responsibilities**

**The USER is responsible for:**

- Installing, operating and maintaining the generator set in accordance with the manufacturer's instructions.
- Ensuring initial start-up is performed by an authorised representative of **The Company** or its dealers. In exceptional circumstances, said start-up will be waived but only if a predelivery inspection has been completed. In such circumstances, warranty will be adjudged to have commenced for one month and terminated 13 months after the date of shipment by **The Company**.
- Making the equipment available for repair as soon as the defect has been apparent.
- Accepting **The Company's** sole judgement as to whether the faulty part is defective in material or workmanship.
- Labour costs, except as stated under **The Company's Responsibilities**. For avoidance of doubt, **The Company** is not responsible for labour costs associated with removal or reinstallation of the equipment on site.
- The costs and risks for transport/shipping and other charges associated with the replacement of the repair parts.
- Any costs in excess of the purchase price of the product.
- Other miscellaneous costs including but not limited to courier, travel, mileage, lodging, taxes, telephone calls, overtime, etc.. Except as stated under **The Company's Responsibilities**.
- Completing any outstanding payments for the purchase of equipment, parts or services relating to the equipment under warranty.

## **The Company's Responsibilities**

**If a defect in material or workmanship arises during the warranty period The Company will during normal working hours and through a place of business of a SG Energy or Southern Generators & Electrical branch or other source approved by The Company:**

- Replace or at **The Company's** discretion repair the defective parts.
- Provide for reasonable and customary labour costs to correct the defect, including labour to disconnect and reconnect the product to its attached equipment, mountings and support systems, except if such equipment, mountings and support systems are supplied by a third party.
- Provide for the cost of service supplies such as coolant, oil and filters which are made unserviceable by the defect.
- Provide travel labour, up to four hours and 200 kilometres round trip, if the engine is inoperative due to a defect and, in the opinion of **The Company**, it cannot reasonably be transported to an appropriate service location.

## **Limitations**

**This warranty does not cover:**

- Defects due to **The User's** improper installation, maintenance or use as adjudged by **The Company**.
- Alterations or repairs not authorised by **The Company** in writing.
- Any operation in excess of **The Company's** rating or outside the stated site conditions.
- Normal wear and tear.
- Damage to parts, fixtures, housings, attachments and accessory items that are not part of the electrical power generation product.
- Any product specific hours limitations.

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**Prime Power:** This rating is for the continuous electrical power, at variable load, in lieu of commercially purchased power. There is no limitation on the annual hours of operation and 10% overload power can be supplied for 1 hour in 12.