



TM22

MODEL	TM22
Stand-by Power @ 50Hz	22kVA/18KW
Prime Power @ 50Hz	20kVA/16KW

Standard Features

General

Engine (Mitsubishi , S4Q2)
 Charge alternator 12 V , Governor:Meca/Mechanical
 Alternator (Stamford , BCI184E)
 Single bearing alternator IP 23 , insulation class H /H
 Radiator 50°C [122°F]max.,with coolant cap
 Skid and vibration isolators
 Dry type air filter
 Main line circuit breaker
 Microprocessor control panel
 12 V battery, rack and cable
 Industrial silencer (loose)
 User manual



Generator Ratings

Voltage	HZ	Phase	P.F	Standby Amps	Standby Ratings kVA/kW	Prime Ratings kVA/kW
415/240	50	3	0.8	31	22 /18	20 /16
400/230	50	3	0.8	33	22/ 18	20 /16
380/220	50	3	0.8	34	22/ 18	20 /16

Stand-By ratings are available for the duration of any power outage. No overload capacity is specified at this ratings. Prime ratings are available per BS 5514, DIN 6271, ISO-3046 and IEC 34-1 with 10% overload capacity one hour in twelve hours.

Conditions of sale

Westinpower provide a full line of products with high quality recognized engines and alternators.

Each and every unit is factory tested. All generator sets are also prototype tested.





ENGINE DATA

Manufacturer / Model	MITSUBISHI S4Q2 , 4-cycle, Athmo , N/A
Cylinder Arrangement	4 X L
Displacement	2.5L
Bore and Stroke	88mm X 103mm
Compression ratio	22 : 1
Rated RPM	1500 Rpm
Piston Speed	5.15m/s
Max. stand by Power at rated RPM	23.87kW
Frequency regulation, steady state	+/- 2.5%
BMEP	6.29bar
Governor : type	Meca/Mechanical

Exhaust System

Exhaust gas flow	74L/s
Exhaust temperature	510°C
Max back pressure	680mm CE

Fuel System

110% (Stand By power)	6.8L/h
100% (of the Prime Power)	6.2 L/h
75% (of the Prime Power)	4.7 L/h
50% (of the Prime Power)	3.4L/h
Total fuel flow	36 L/h

Oil System

Total oil capacity w/filters	6.5L
Oil Pressure low idle	1bar
Oil Pressure rated RPM	5bar
Oil consumption 100% load	0.06L/h
Oil capacity carter	5.5L

Thermal balance 100% load

Heat rejection to exhaust	21kW
Radiated heat to ambient	3kW
Heat rejection to coolant	19kW

Air intake

Max. intake restriction	200mm CE
Engine air flow	74L/s

Coolant System

Radiator & engine capacity	8.1L
Max water temperature	111°C [232°F]
Outlet water temperature	93°C [199°F]
Fan power	0.8 kW
Fan air flow	0.8m ³ /s
Available restriction on air flow	10mm CE [0.4in. WG]
Type of coolant	Gencool
Thermostat	76.5-90 °C



ALTERNATOR SPECIFICATIONS

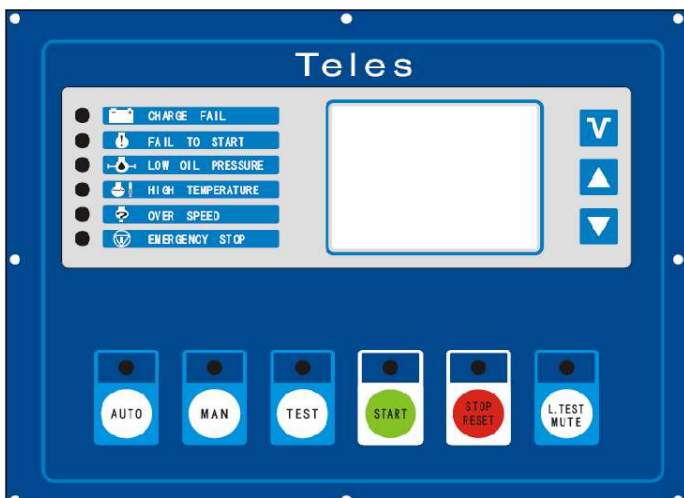
GENERAL DATA

Compliance with NEMA MG21, UTE NF C51.111, VDE 0530, BS 4999, CSA standards.	Vacuum-impregnated windings with epoxy varnish. IP23 drip proof
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Generator DATA

Manufacturer / Type	Stamford BCI184E
Number of phase Power factor (Cos Ph)	3 0.8
Pole : number	4
Bearing : number	1
Coupling	Direct
Exciter type	Brushless SHUNT
Continuous nominal rating @ 40°C	22.5KVA
Standby power @ 27°C	24.8KVA
Efficiency @ 100% load	86.6%
Insulation : class, temperature rise	H/H
Protection	IP23

Control panel



Specifications: Frequency meter, Ammeter, Voltmeter

Alarms and faults Oil pressure, water temperature, No start-up, Over speed, Min/max alternator, Min/max battery voltage, Low fuel level, Emergency stop.

Engine parameters:

Hours counter, Oil pressure, Water temperature, Engine speed, Battery voltage, Fuel level



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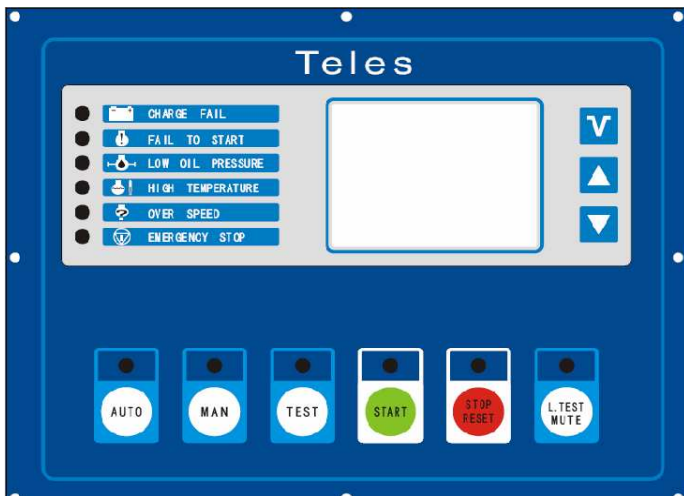
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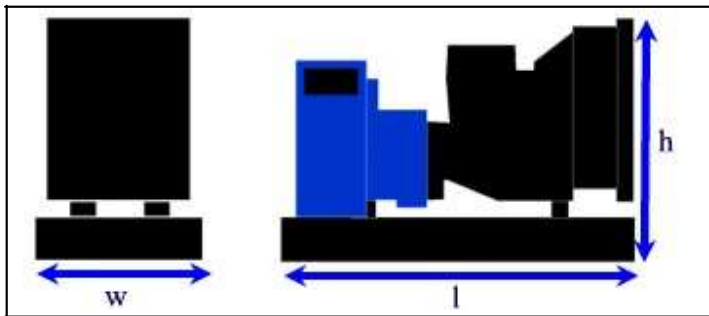
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Options

<p>Engine and Radiator</p> <p>Heat shield protection Oil drain extension Heavy duty air filter Lube oil drain pump Radiator core guard Battery charger Block heater</p>	<p>Alternator</p> <p>Anti condensation heater Enforced impregnation Oversized alternator</p> <p>Exhaust</p> <p>Residential silencer Critical silencer Flexible exhaust conn.</p>	<p>Control panel</p> <p>NFPA 110 level 1 Remote annunciator Oil temperature shutdown</p> <p>Literature</p> <p>Parts</p>
<p>Fuel</p> <p>Day tank Subbase fuel tanks UL Water separator fuel filter</p>	<p>Enclosure</p> <p><input type="checkbox"/> 75dB(A)@1m \leq Mode SI* < <input type="checkbox"/> 80dB(A)@1m</p>	

Weight and Dimensions

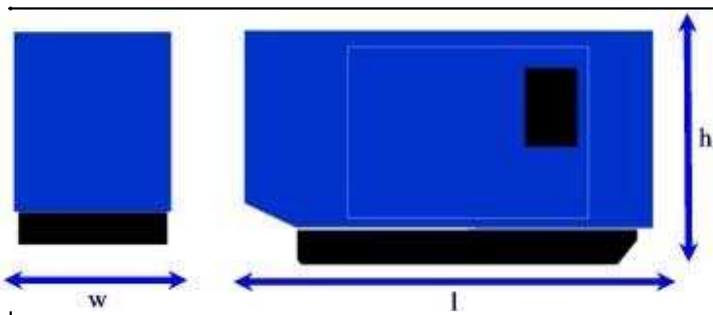
Open Model



Overall size L*W*H :
1700mm x896mm x1120mm

Weight :
530kg

With Optional Enclosure



Overall size L*W*H :
2250mm x 900mm x1540mm

Weight :
845kg