

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 units 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	0.8m3/s
Available restriction on air flow	10mm CE [0.4in. WG]
Type of coolant	Gencool
Thermostat	76.5-90 °C

ALTERNATOR SPECIFICATIONS

GENERAL DATA

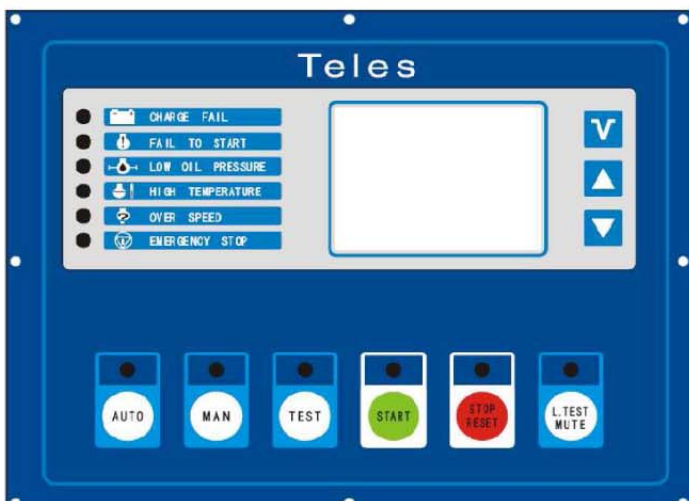
Compliance with NEMA MG21, UTE NF C51.111, VDE 0530, BS 4999, CSA standards.

Vacuum-impregnated windings with epoxy varnish.
IP23 drip proof

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:

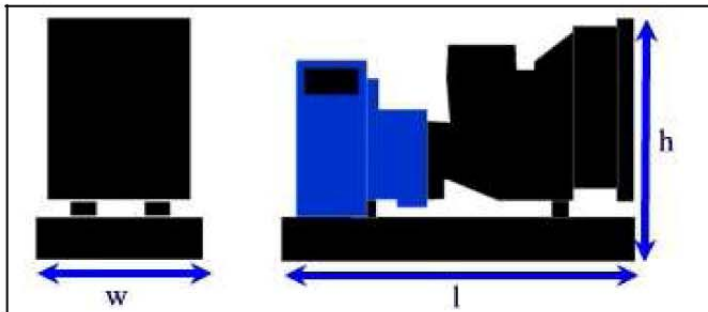
Hours counter, Oil pressure, Water temperature, Engine speed, Battery voltage, Fuel level

Options

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

Weight and Dimensions

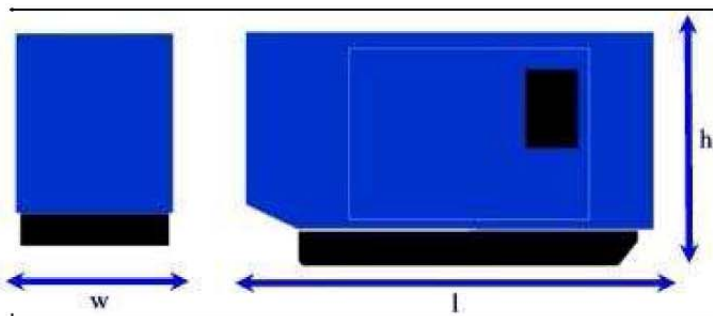
Open Model



Overall size L*W*H :
1700mm x 896mm x 1120mm

Weight :
530kg

With Optional Enclosure



Overall size L*W*H :
2250mm x 900mm x 1540mm

Weight :
845kg