

TM11.5

MODEL	TM11.5
Stand-by Power @ 50Hz	12 kVA/9KW
Prime Power @ 50Hz	10kVA/8KW

Standard Features

General

Engine (Mitsubishi , S3L2)
 Charge alternator 12 V , Governor:Meca/Mechanical
 Alternator (Stamford , BCI164B)
 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	16	12 / 9	10 / 8
400/230	50	3	0.8	16	12/ 9	10 / 8
380/220	50	3	0.8	17	12/ 9	10 / 8

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 S3L2 , 4-cycle, Athmo , N/A
Cylinder Arrangement	3 X L
Displacement	1.31L
Bore & Stroke	78mm X 92mm
Compression ratio	22 : 1
Rated RPM	1500 Rpm
Piston Speed	4.6m/s
Max. stand by Power at rated RPM	11.33kW
Frequency regulation, steady state	+/-2. 5%
BMEP	5.62bar [81psi]
Governor : type	Meca/Mechanical

Exhaust System

Exhaust gas flow	36.5L/s
Exhaust temperature	400°C
Max back pressure	700mm CE

Fuel System

110% (Stand By power)	4.2L/h
100% (of the Prime Power)	3.1L/h
75% (of the Prime Power)	2.5 L/h
50% (of the Prime Power)	2.1L/h
Total fuel flow	36 L/h

Oil System

Total oil capacity w/filters	4.2L
Oil Pressure low idle	0.5bar
Oil Pressure rated RPM	4bar
Oil consumption 100% load	0.018L/h
Oil capacity carter	3.7L

Thermal balance 100% load

Heat rejection to exhaust	10kW
Radiated heat to ambient	1kW
Heat rejection to coolant	9.8kW

Air intake

Max. intake restriction	200mm CE
Engine air flow	36.5L/s

Coolant System

Radiator & engine capacity	4.2L
Max water temperature	111°C [232°F]
Outlet water temperature	93°C [199°F]
Fan power	0.3 kW
Fan air flow	0.5m ³ /s
Available restriction on air flow	10mm CE [0.4in. WG]
Type of coolant	Gencool
Thermostat	76.5-90 °C

ALTERNATOR SPECIFICATIONS

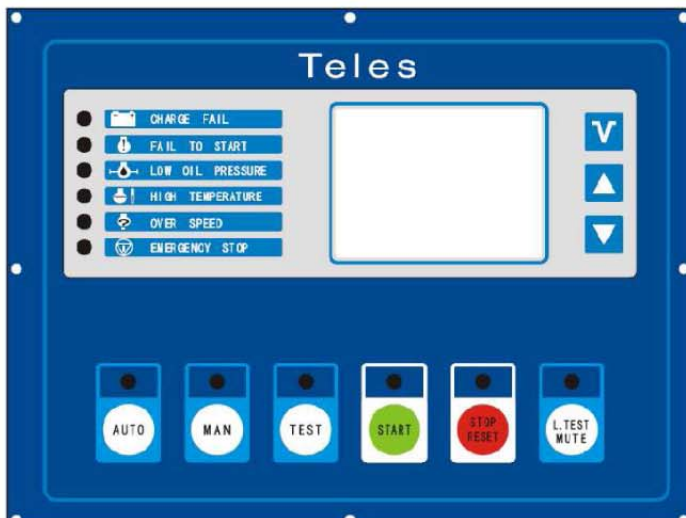
GENERAL DATA

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

Vacuum-impregnated windings with epoxy varnish.
IP23 drip proof

Generator DATA	
Manufacturer / Type	Stamford BCI164B
Number of Phase Power	3
factor (Cos Ph)	0.8
Pole : number	4
Bearing : number	1
Coupling	Direct
Exciter type	Brushless SHUNT
Continuous nominal rating @ 40°C	11KVA
Standby power @ 27°C	12KVA
Efficiency @ 100% load	79.4%
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:

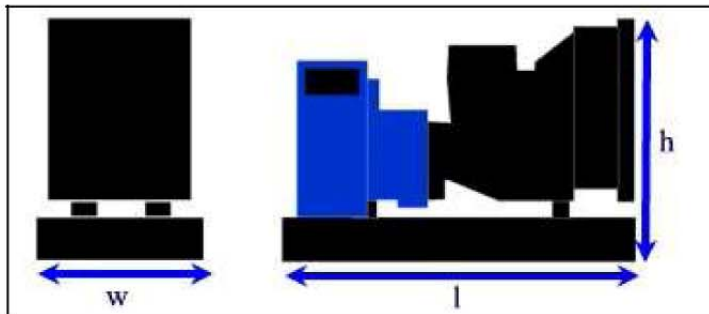
Hours counter, Oil pressure, Water temperature, Engine speed, Battery voltage, Fuel level

Options

<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

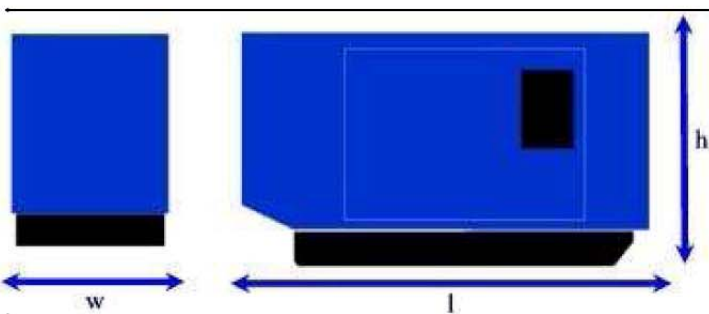
Open Model



Overall size L*W*H :
1410mm x715mm x1030mm

Weight :
387kg

With Optional Enclosure



Overall size L*W*H :
1815mm x 745mm x1270mm

Weight :
561kg