



## TM11.5

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

### 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 unit 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 Bore bore & Stroke	1.31L 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 <sup>3</sup> /s
Available restriction on air flow	10mm CE [0.4in. WG]
Type of coolant	Gencool
Thermostat	76.5-90 °C



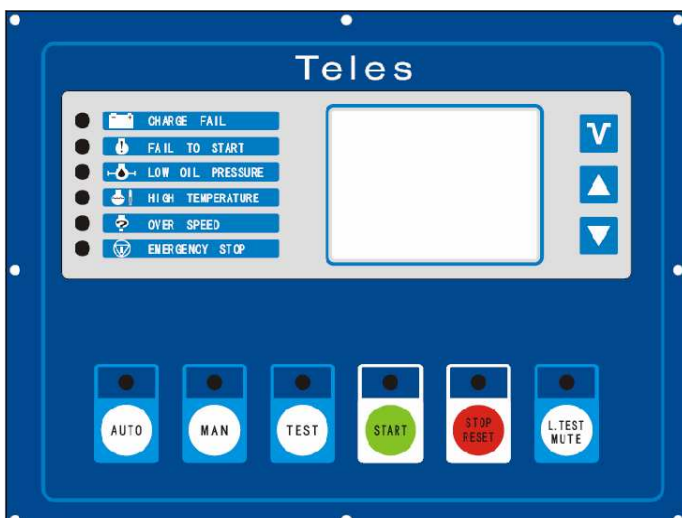
## ALTERNATOR SPECIFICATIONS

### 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 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

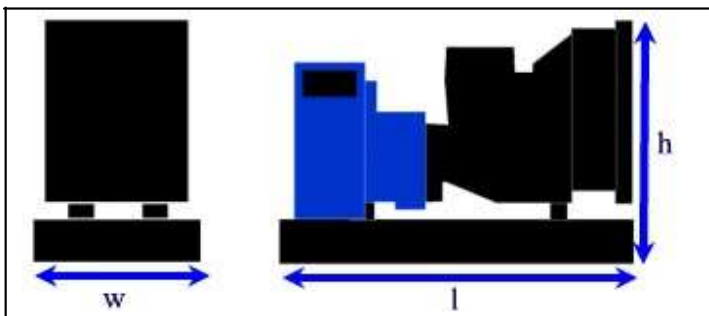


## Options

<p><b>Engine and Radiator</b></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><b>Alternator</b></p> <p>Anti condensation heater Enforced impregnation Oversized alternator</p> <p><b>Exhaust</b></p> <p>Residential silencer Critical silencer Flexible exhaust conn.</p>	<p><b>Control panel</b></p> <p>NFPA 110 level 1 Remote annunciator Oil temperature shutdown</p> <p><b>Literature</b></p> <p>Parts</p>
<p><b>Fuel</b></p> <p>Day tank Subbase fuel tanks UL Water separator fuel filter</p>	<p><b>Enclosure</b></p> <p><input type="checkbox"/> 75dB(A)@1m <math>\leq</math> Mode SI' &lt; <input type="checkbox"/> 80dB(A)@1m</p>	

## Weight and Dimensions

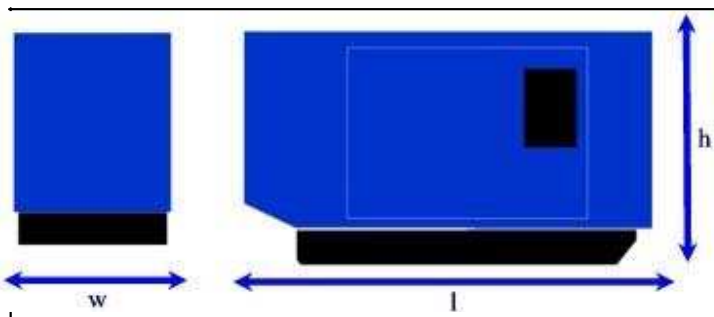
### Open Model



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

Weight :  
387kg

### With Optional Enclosure



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

Weight :  
561kg



Specifications and design liable to modifications without prior notice