



## **PRODUCT CATALOGUE**

# ***PREM POWER LLC.***

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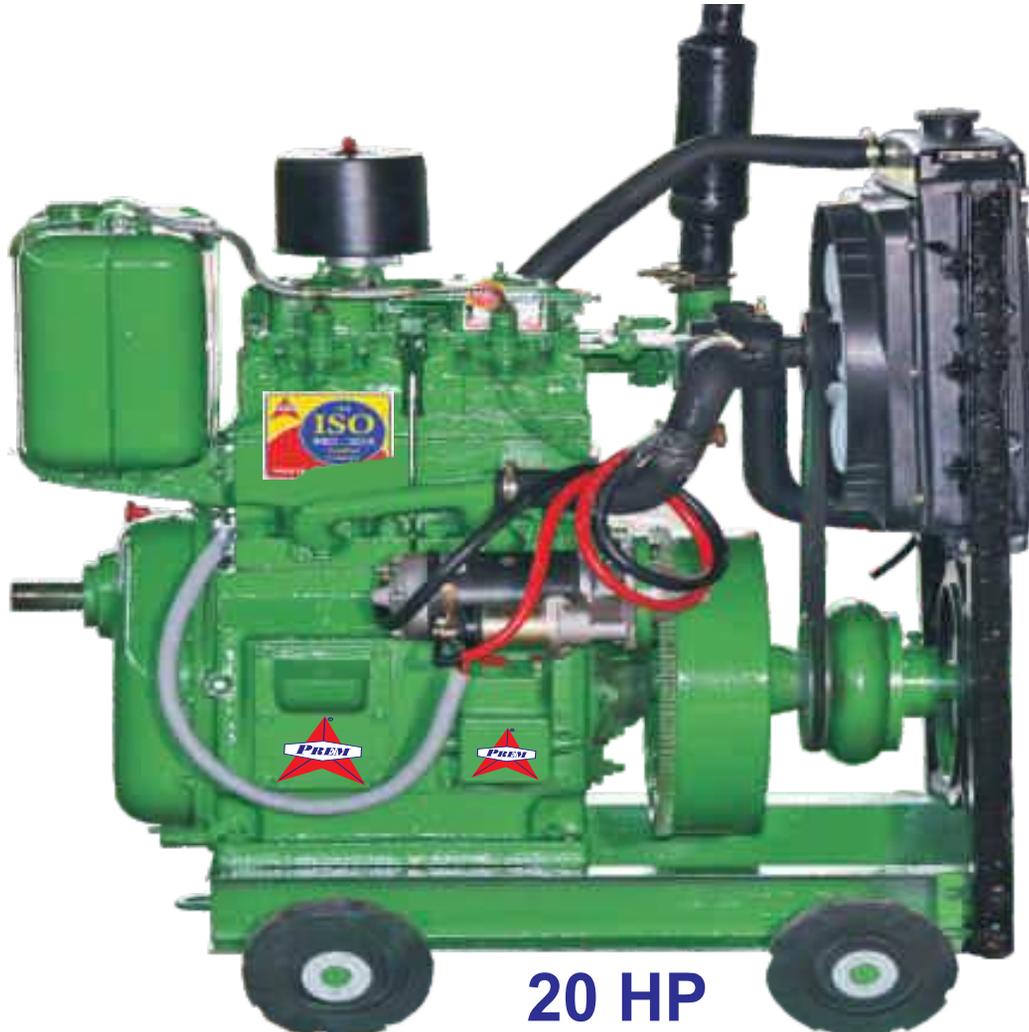


# WATER COOLED DIESEL ENGINES

Application Use : Pumpsets, Diesel Generating Sets, Industrial & Construction Equipments



5HP



20 HP

# WATER COOLED DIESEL ENGINES

| Sr. No. | Description  | Model               | PVP - 5<br>AV-1  | PVP - 8A<br>TV-1   | PVP - 10<br>DM-10  | PVP - 14<br>TV-1   | PVP - 20<br>DM-20  |
|---------|--|---------------------|------------------|--------------------|--------------------|--------------------|--------------------|
|         |  |                     | PVP - 6<br>AV-1  | PVP - 8<br>DM-8    | PVP - 12<br>DM-12  | PVP - 16<br>DM-16  | PVP - 25<br>DM-25  |
| 1.      | Vertical, Water Cooled, Compression Ignition, Direct Injection, Four Stroke Cycle High Speed Diesel Engine | Type                | BB/TRB<br>BB/TRB | BB/TRB<br>BB/TRB   | BB/TRB<br>BB/TRB   | BB                 | BB                 |
| 2.      | Rated Power<br>(As per Is : 1001-1981 & IS : 11170-1985)   | HP/KW               | 5/3.7<br>6.5/4.8 | 8.5/5.9<br>8/5.9   | 10/7<br>12.5/7.35  | 14/10.3<br>16/11.8 | 20/14.7<br>25/18.4 |
| 3.      | Rated Speed  | RPM                 | 1500             | 1600<br>1500       | 1500               | 1500               | 1500               |
| 4.      | No. of Cylinders   | ---                 | One              | One                | One                | Two                | Two                |
| 5.      | Bore & Stoke in mm   | mm                  | 80/110<br>85/110 | 87.5/110<br>95/110 | 102/116<br>114/116 | 87.5/110<br>95/110 | 102/116<br>114/116 |
| 6.      | Specific Fuel Consumption at Full Load and at std. ref. conditions   | g/bhp. hr<br>g/kwh. | 185<br>251       | 185<br>251         | 185<br>251         | 185<br>251         | 185<br>251         |
| 7.      | Net Weight / Gross Weight  | Kgs.<br>(Approx)    | 160/210          | 165/215<br>175/225 | 185/235<br>200/250 | 250/350<br>260/365 | 275/385<br>290/400 |
| 8.      | Size   | In Inch             | 26 X 24 X 35     | 26 X 24 X 35       | 26 X 24 X 35       | 36 X 24 X 35       | 36 X 24 X 35       |



# AIR COOLED DIESEL ENGINES

Application Use : Pumpsets, Diesel Generating Sets, Industrial & Construction Equipments



Blower Type Electric Start



With Variable Speed lever



TAF2 Type



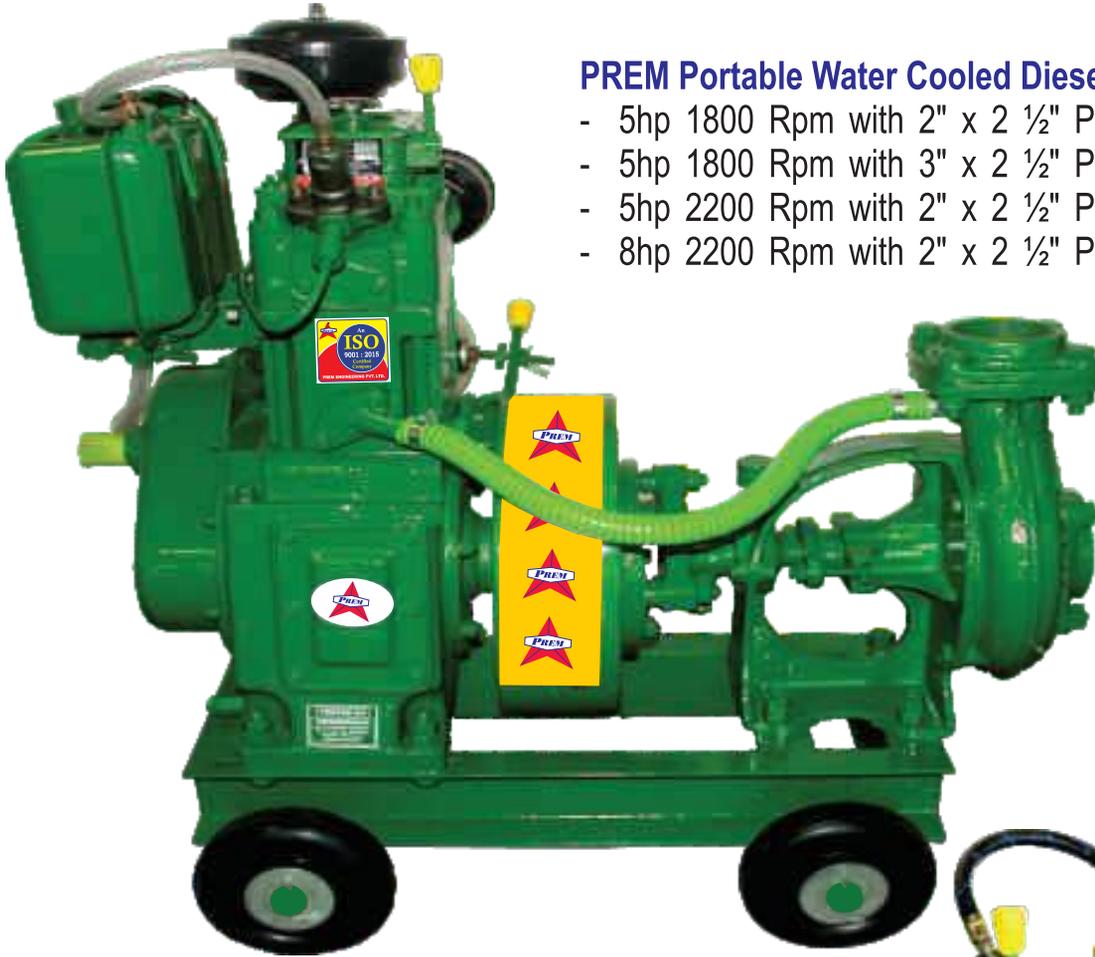
TAF2 Type

# AIR COOLED DIESEL ENGINES

| Sr. No. | Description   | Model               | PA - 5<br>CAF-1  | PA - 6<br>TAF-1  | PA - 8<br>DAF - 8     | PA - 10<br>DAF - 10     | PAP - 12<br>TAF - 12 | PA - 12<br>TAF - 2 | PA - 16<br>DAF - 16 | PA - 20<br>DAF - 20 |
|---------|---|---------------------|------------------|------------------|-----------------------|-------------------------|----------------------|--------------------|---------------------|---------------------|
| 1.      | Vertical, Air Cooled,<br>Compression Ignition,<br>Direct Injection,<br>Four Stroke Cycle<br>High Speed<br>Diesel Engine | Type-1              | PAP-5<br>TRB     | PAP-6<br>TRB     | PAP-8<br>TRB<br>CAF-8 | PAP-10<br>TRB<br>CAF-10 | PAP-12<br>TRB        | BB<br>BUSH<br>GP   | BB<br>BUSH<br>GP    | BB<br>BUSH<br>GP    |
|         |   | Type-2              | BB<br>BUSH<br>PP | BB<br>BUSH<br>GP | BB<br>BUSH<br>GP      | BB<br>BUSH<br>GP        | BB<br>BUSH<br>GP     | BB<br>BUSH<br>GP   | BB<br>BUSH<br>GP    | BB<br>BUSH<br>GP    |
| 2.      | Rated Power<br>(As per Is : 1001-1981<br>& IS : 11170-1985)   | HP/KW               | 5/3.7            | 6/4.4            | 8/5.9                 | 10/7.35                 | 12/8.8               | 12/8.8             | 16/11.8             | 20/14.7             |
| 3.      | Rated Speed   | RPM                 | 1500             | 1500             | 1500                  | 1500                    | 1500                 | 1500               | 1500                | 1500                |
| 4.      | No. of Cylinders  | ---                 | One              | One              | One                   | One                     | One                  | Two                | Two                 | Two                 |
| 5.      | Bore & Stoke in mm  | mm                  | 80/110           | 87.5/110         | 95/110                | 102/116                 | 114/116              | 87.5/110           | 95/110              | 102/116             |
| 6.      | Specific Fuel<br>Consumption at<br>Full Load and at<br>std. ref. conditions   | g/bhp. hr<br>g/kwh. | 185<br>251       | 185<br>251       | 185<br>251            | 185<br>251              | 185<br>251           | 185<br>251         | 185<br>251          | 185<br>251          |
| 7.      | Net Weight /<br>Gross Weight  | Kgs.<br>(Approx)    | 160/210          | 170/220          | 190/240               | 200/250                 | 210/260              | 275/350            | 285/360             | 295/370             |
| 8.      | Size  | In Inch             | 25 X 21 X 25     | 25 X 21 X 25     | 25 X 21 X 25          | 25 X 22 X 25            | 26 X 24 X 35         | 36 X 24 X 35       | 36 X 24 X 35        | 36 X 24 X 35        |
| 9.      | PA Models are with plunger type lub oil pump and sheet metal gear cover.  |                     |                  |                  |                       |                         |                      |                    |                     |                     |
| 10.     | BUSH type models are with Gear oil pump and Cast Iron Gear cover.   |                     |                  |                  |                       |                         |                      |                    |                     |                     |
| 11.     | Extra attachment are also available. They are at optional, Blower Type Electric also available.                         |                     |                  |                  |                       |                         |                      |                    |                     |                     |



# PORTABLE WATER COOLED DIESEL ENGINES & PUMPING SETS



## PREM Portable Water Cooled Diesel Engine Pumping Set :

- 5hp 1800 Rpm with 2" x 2 ½" Pump on 4 Wheel trolley.
- 5hp 1800 Rpm with 3" x 2 ½" Pump on 4 Wheel trolley.
- 5hp 2200 Rpm with 2" x 2 ½" Pump on 4 Wheel trolley.
- 8hp 2200 Rpm with 2" x 2 ½" Pump on 4 Wheel trolley.



**5 HP  
PORTABLE**

| Model No. | HP  | RPM  | BORE | STROKE | TYPE | ISI |
|-----------|-----|------|------|--------|------|-----|
| PVP 35    | 3.5 | 1500 | 76   | 76     | TRB  | --- |
| PVP 50    | 5   | 1800 | 76   | 76     | TRB  | --- |
| PVP 50A   | 5   | 1800 | 85   | 80     | TRB  | ISI |
| PVP 60    | 6   | 1800 | 85   | 80     | TRB  | --- |



# PORTABLE AIR COOLED DIESEL ENGINES & PUMPING SETS

## PREM Portable Air Cooled Diesel Engine Pumping Set :

- 5hp 1800 Rpm with 2" x 2 ½" Pump on 4 Wheel trolley.
- 5hp 1800 Rpm with 3" x 2 ½" Pump on 4 Wheel trolley.
- 5hp 2200 Rpm with 2" x 2 ½" Pump on 4 Wheel trolley.
- 8hp 2200 Rpm with 2" x 2 ½" Pump on 4 Wheel trolley.



| Model No. | HP  | RPM  | BORE | STROKE | TYPE |
|-----------|-----|------|------|--------|------|
| PAP 35    | 3.5 | 1500 | 76   | 76     | TRB  |
| PAP 50    | 5   | 1800 | 76   | 76     | TRB  |
| PAP 50A   | 5   | 1500 | 85   | 80     | TRB  |
| PAP 60    | 6   | 1800 | 85   | 80     | TRB  |



# SLOW SPEED DIESEL ENGINES

Agricultural Irrigation, Threshers, Flour Mill, Corn Mill, Generating Sets, Oil Mill, Saw Mill, Crusher, Air Compressor, Concrete Mixer and other various Industrial uses.



8 HP



10 HP



12 HP



SELF START ENGINE



6 H.P.



8 H.P.



10 H.P.



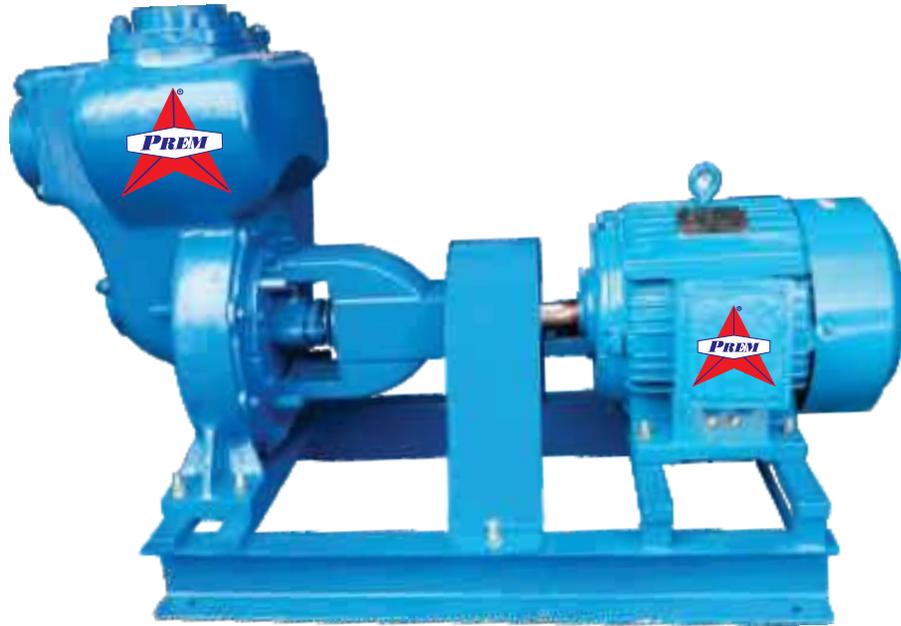
20 H.P.

## TECHNICAL DATA FOR SLOW SPEED DIESEL ENGINE

| No. | Particulars               |                | PVL-6                               | PVL-8                               | PVL-10    | PVL-12A                             | PVL-14    | PVL-16                              | PVL-20                              |
|-----|---------------------------|----------------|-------------------------------------|-------------------------------------|-----------|-------------------------------------|-----------|-------------------------------------|-------------------------------------|
| 1.  | Rated Horse Power         | B.H.P.         | 6/1                                 | 8/1                                 | 10/1      | 12/1                                | 14/1      | 16/1                                | 20/1                                |
| 2.  | Maximum Gross Power       | B.H.P./kw      | 6/4.4                               | 8/5.9                               | 10/7.35   | 12/8.8                              | 14/10.30  | 16                                  | 20                                  |
| 3.  | Rated Speed               | RPM            | 650                                 | 850                                 | 1000      | 1000                                | 1000      | 1000                                | 1000                                |
| 4.  | Cylinder Position         |                | Vertical                            | Vertical                            | Vertical  | Vertical                            | Vertical  | Vertical                            | Vertical                            |
| 5.  | No. of Cylinder           |                | One                                 | One                                 | One       | One                                 | One       | One                                 | One                                 |
| 6.  | Cyl. Bore & Stroke        | Inch           | 4½ X 5½                             | 4½ X 5½                             | 4¾ X 5½   | 5 X 5½                              | 5 X 5½    | 5 X 6"                              | 5 X 6"                              |
|     |                           | mm             | 114.3X139.7                         | 114.3X139.7                         | 120X139.7 | 127X139.7                           | 127X139.7 | 130/160                             | 130/160                             |
| 7.  | Flywheel Dimension & Face | Inch           | 23 <sup>5</sup> / <sub>8</sub> X 3½ | 23 <sup>5</sup> / <sub>8</sub> X 3½ | 20¼ X 3¾  | 23 <sup>5</sup> / <sub>8</sub> X 3½ | 25 X 4½   | 23 <sup>1</sup> / <sub>2</sub> X 4" | 23 <sup>1</sup> / <sub>2</sub> X 4" |
|     |                           | mm             | 600 X 89                            | 600 X 89                            | 514 X 95  | 600 X 89                            | 635 X 114 | 596 X 102                           | 596 X 102                           |
| 8.  | Foundation Stud Hole      | Inch           | 13 X 13                             | 13 X 13                             | 13 X 13   | 13 X 13                             | 13 X 13   | 13 X 13                             | 13 X 13                             |
|     | Centre Distance           | mm             | 330 X 330                           | 330 X 330                           | 330 X 330 | 330 X 330                           | 330 X 330 | 330 X 330                           | 330 X 330                           |
| 9.  | Crankshaft Centre         | Inch           | 12½                                 | 12½                                 | 12½       | 13½                                 | 13½       | 13½                                 | 13½                                 |
|     | Distance from Base        | mm             | 318                                 | 318                                 | 318       | 343                                 | 343       | 343                                 | 343                                 |
| 10. | Engine Total height       | Inch           | 40                                  | 40                                  | 40        | 40                                  | 40        | 40                                  | 40                                  |
|     |                           | mm             | 1016                                | 1016                                | 1016      | 1016                                | 1016      | 1016                                | 1016                                |
| 11. | Fuel Oil Tank Capacity    | Liter          | 8                                   | 8                                   | 10        | 10                                  | 12        | 12                                  | 12                                  |
| 12. | Lub. Oil Cap. in Chamber  | Liter          | 5                                   | 5                                   | 5         | 5                                   | 5         | 5                                   | 5                                   |
| 13. | Overall Height            | cms.           | 120                                 | 120                                 | 120       | 122                                 | 122       | 122                                 | 122                                 |
| 14. | Engine Nett Weight        | kgs.           | 280                                 | 290                                 | 310       | 310                                 | 340       | 340                                 | 340                                 |
| 15. | Gross Weight              | kgs.           | 380                                 | 390                                 | 410       | 425                                 | 455       | 455                                 | 455                                 |
| 16. | Size of Wooden Case       | cms.           | 88X64X108                           | 88X64X108                           | 88X64X108 | 94X70X104                           | 94X70X104 | 94X70X104                           | 94X70X104                           |
| 17. | Volume / Case             | m <sup>3</sup> | 0.608                               | 0.608                               | 0.608     | 0.69                                | 0.69      | 0.69                                | 0.69                                |



# SELF PRIMING PUMPSET



Self Priming Pump with Electric Motor



PUMP - 4" X 4"

## Pump Specifications

| MODEL   | MOTOR HP | PIPE SIZE IN mm. Suc. X Del. | SPEED IN R.P.M. | TOTAL HEAD IN METERS        |      |      |      |      |      |      |      |      |      |      |      |     | SOLID HANDLING SIZE (mm) |
|---------|----------|------------------------------|-----------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|-----|--------------------------|
|         |          |                              |                 | 10                          | 12   | 14   | 15   | 16   | 18   | 19   | 20   | 22   | 24   | 25   | 26   | 28  |                          |
|         |          |                              |                 | DISCHARGE LITERS PER SECOND |      |      |      |      |      |      |      |      |      |      |      |     |                          |
| PSP-31  | 6.00     | 80 X 80                      | 1500            | 17.1                        | 15.0 | 13.5 | 11.9 | 8.1  | 5.4  | 3.1  | -    | -    | -    | -    | -    | -   | 15.5                     |
| PSP-31  | 12.00    | 80 X 80                      | 1800            | -                           | -    | -    | 22.0 | 21.5 | 20.1 | 19.3 | 18.4 | 16.1 | 13.2 | 11.5 | 9.5  | 5.4 | 15.5                     |
| PSP-4LA | 12.00    | 100X100                      | 1500            | -                           | 35.7 | 33.2 | 32.0 | 30.6 | 27.7 | 26.1 | 24.4 | 20.9 | 16.6 | 14.0 | 10.9 | -   | 18.5                     |
| PSP-4L  | 14.00    | 100X100                      | 1500            | -                           | 39.8 | 38.4 | 37.5 | 35.5 | 33.4 | 31.8 | 30.0 | 25.8 | 21.0 | 17.9 | 15.4 | 9.2 | 23.0                     |
| PSP-6LA | 22.00    | 150X150                      | 1500            | 67.5                        | 65.6 | 62.5 | 61.5 | 58.6 | 53.0 | 51.1 | 47.4 | 40.4 | 32.2 | 27.8 | 22.0 | -   | 34.0                     |
| PSP-6L  | 26.00    | 150X150                      | 1500            | 76.8                        | 73.8 | 71.4 | 70.2 | 67.5 | 62.2 | 61.4 | 56.3 | 50.1 | 41.4 | 37.7 | 31.4 | -   | 40.0                     |



# DIESEL GENERATING SETS

Application Use : Pumpsets, Diesel Generating Sets, Industrial & Construction Equipments

## 3.5 KVA TO 20 KVA



**AIR COOLED MODEL**

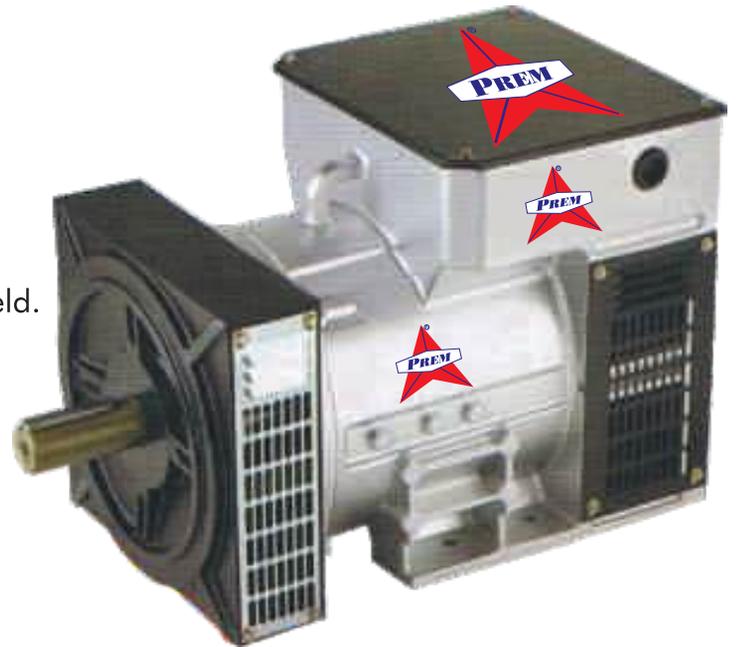


**WATER COOLED MODEL**

## Range : 3.5 kVA to 125 kVA (Brushless Models Available)

### Features :

- ▲ Low Maintenance.
- ▲ 100% Copper Winding.
- ▲ Alluminium Die Cast Body With Integral N.D.E. Shield.
- ▲ Cast Iron D.E.Shield.
- ▲ Life Lubricated Sealed Ball Bearings.
- ▲ Screen Protected Self Ventilated Machine.
- ▲ Degree of Protection : IP21
- ▲ The Alternator are Self Excited, Self Regulated and Supplied with Electronic Voltage Regulator or Compound Excitation Transformer.



## TECHNICAL SPECIFICATION

| Model                     | SP 132<br>5 | SP 132<br>7.5 | SP 132<br>10 | SP 160<br>12.5 | SP 160<br>15 | TP 132<br>5 | TP 132<br>7.5 | TP 132<br>10 | TP 132<br>12.5 | TP 132<br>15 | TP 160<br>20 | TP 160<br>25 | TP 160<br>30 |
|---------------------------|-------------|---------------|--------------|----------------|--------------|-------------|---------------|--------------|----------------|--------------|--------------|--------------|--------------|
| <b>Ac Output KVA</b>      | 5           | 7.5           | 10           | 12.5           | 15           | 5           | 7.5           | 10           | 12.5           | 15           | 20           | 25           | 30           |
| <b>KW</b>                 | 5           | 7.5           | 10           | 12.5           | 15           | 4           | 6             | 8            | 10             | 12           | 16           | 20           | 24           |
| <b>Ac Volt</b>            | 240         | 240           | 240          | 240            | 240          | 415         | 415           | 415          | 415            | 415          | 415          | 415          | 415          |
| <b>Ac Amp.</b>            | 21          | 31.5          | 42           | 52             | 62.5         | 7           | 10.5          | 14           | 17.5           | 21           | 28           | 35           | 42           |
| <b>Hz.</b>                | 50          | 50            | 50           | 50             | 50           | 50          | 50            | 50           | 50             | 50           | 50           | 50           | 50           |
| <b>P.F.</b>               | 1.0         | 1.0           | 1.0          | 1.0            | 1.0          | 0.8         | 0.8           | 0.8          | 0.8            | 0.8          | 0.8          | 0.8          | 0.8          |
| <b>Voltage Regulation</b> | +/-5%       | +/-5%         | +/-5%        | +/-5%          | +/-5%        | +/-5%       | +/-5%         | +/-5%        | +/-5%          | +/-5%        | +/-5%        | +/-5%        | +/-5%        |
| <b>Insulation CL</b>      | Class H     | Class H       | Class H      | Class H        | Class H      | Class H     | Class H       | Class H      | Class H        | Class H      | Class H      | Class H      | Class H      |
| <b>Connection</b>         | STAR        | STAR          | STAR         | STAR           | STAR         | STAR        | STAR          | STAR         | STAR           | STAR         | STAR         | STAR         | STAR         |
| <b>Rpm</b>                | 1500        | 1500          | 1500         | 1500           | 1500         | 1500        | 1500          | 1500         | 1500           | 1500         | 1500         | 1500         | 1500         |

# As continuous improvements are Contemplated. The Illustrations & Descriptions are not binding.

### Normal Operating Condition :

Altitude : Less than 1000m (3300 ft)  
 Ambient Temperature : Less than 40°C  
 Power Factor : From 0.8 Lagging up to  
 Unity Power Factor

### Limit for Safe Operation :

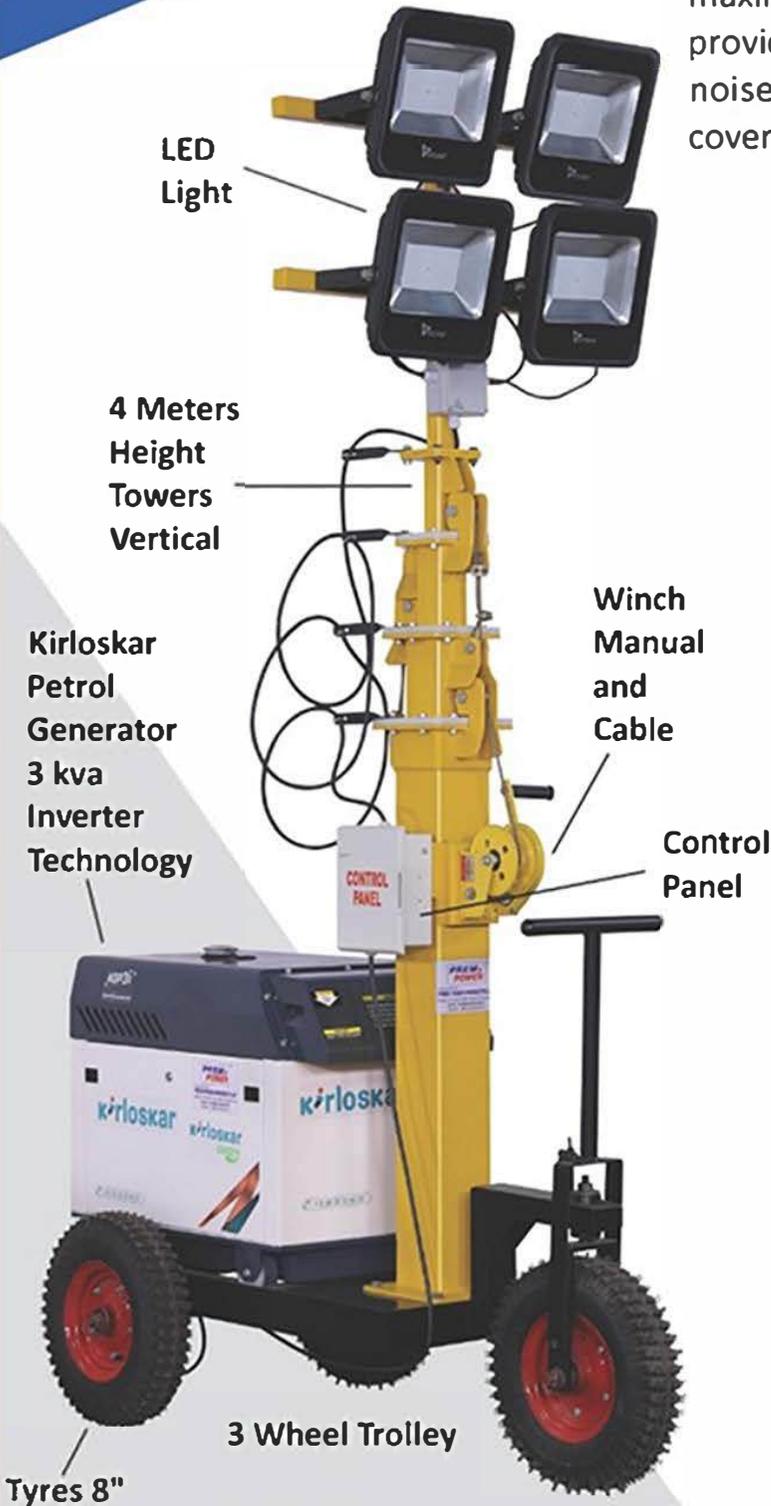
Over Speed : 20% (1800 rpm for 60 Hz)  
 Over Load : 110% of rated value for one Hr.

**PREM  
POWER**

## PORTABLE MOBILE LIGHT TOWER

This **PREM POWER** portable light tower is ideal to use in tough and remote environments, it has application in construction, mining and rental companies. This is portable and allows maximum fuel efficiently and reliability thereby providing low operational costs and reduced noise levels while increasing illumination coverage. **PREM POWER** Best solution to your needs.

KIRLOSKAR  
CPCB IV  
+  
SILENT PETROL  
GENERATOR



### APPLICATION USE :

- Rural and hard to reach areas.
- Emergency response.
- Construction and road work sites.
- Gas, Oil and Mining operation.
- Military application.
- Sporting events.

### KEY BENEFITS :

- Easy to move.
- Robustness.
- Safety.
- Cost effective.

### LED LIGHTS :

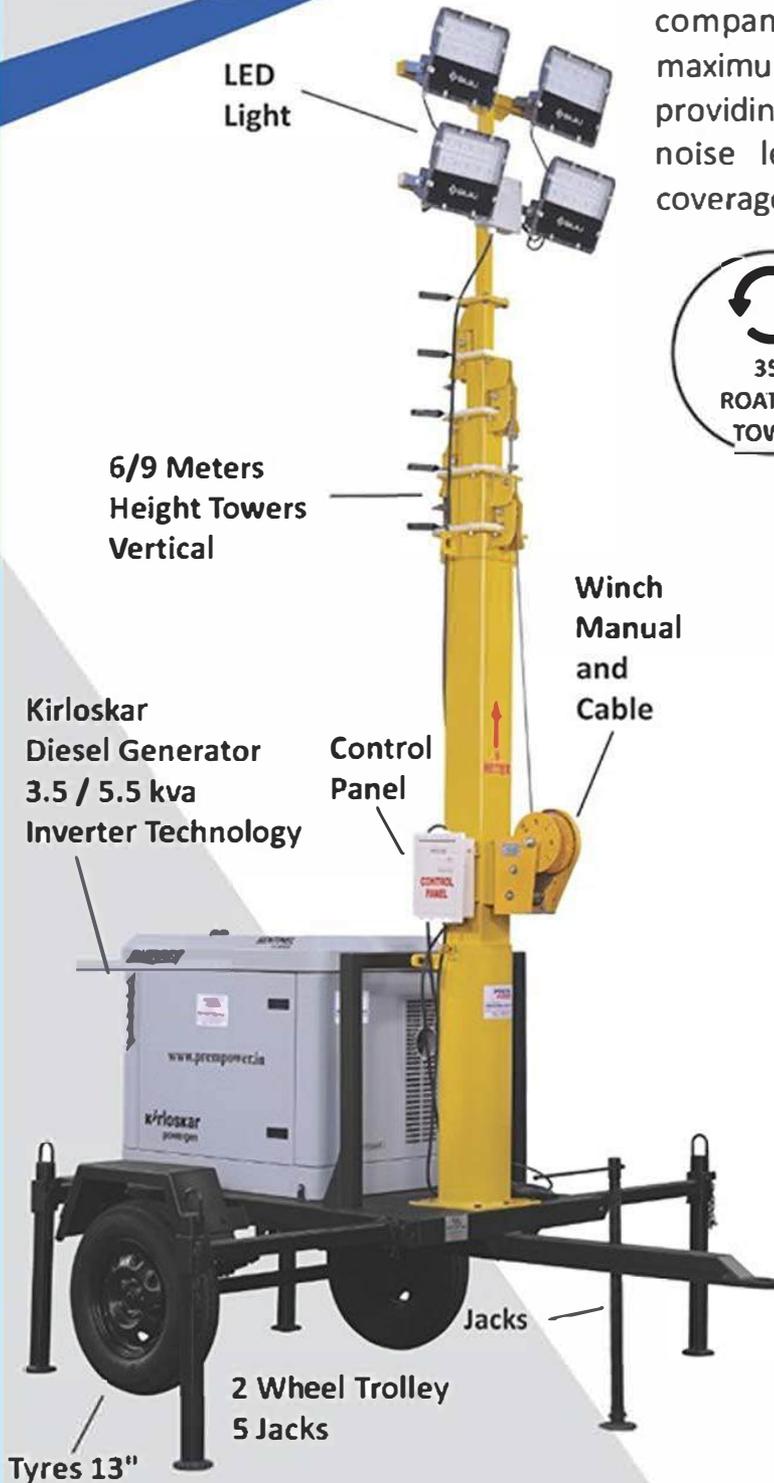
- 4 X 100 Watts
- 4 X 150 Watts
- 4 X 200 Watts

\* Warranty as per company policy for Generator and Led Lights.

**PREM**  
**POWER**

## MOBILE LIGHT TOWER

This **PREM POWER** portable light tower is ideal to use in tough and remote environments, it has application in construction, mining and rental companies. This is portable and allows maximum fuel efficiently and reliability thereby providing low operational costs and reduced noise levels while increasing illumination coverage. **PREM POWER** Best solution to your needs.



LED  
Light

6/9 Meters  
Height Towers  
Vertical

Kirloskar  
Diesel Generator  
3.5 / 5.5 kva  
Inverter Technology

Control  
Panel

Winch  
Manual  
and  
Cable

Jacks

Tyres 13"

2 Wheel Trolley  
5 Jacks



### APPLICATION USE :

- Rural and hard to reach areas.
- Emergency response.
- Construction and road work sites.
- Gas, Oil and Mining operation.
- Military application.
- Sporting events.

### KEY BENEFITS :

- Easy to move.
- Robustness.
- Safety.
- Cost effective.

### LED LIGHTS :

- 4 X 200 Watts
- 4 X 250 Watts
- 4 X 400 Watts

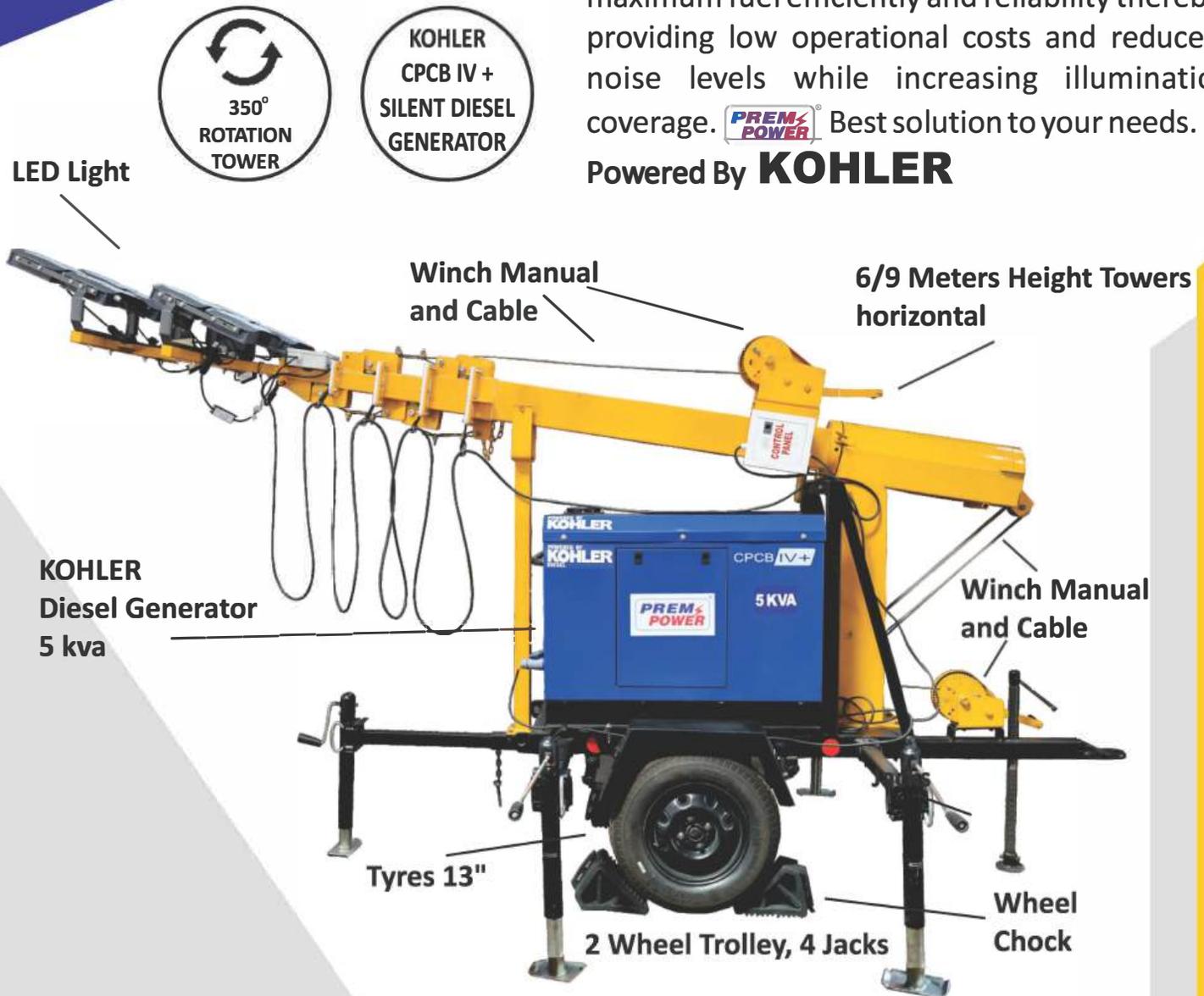
\* Warranty as per company policy for Generator and Led Lights.

**PREM**  
**POWER**

## HORIZONTAL LIGHT TOWER

This **PREM POWER** horizontal light tower is ideal to use in tough and remote environments, it has application in construction, mining and rental companies. This is portable and allows maximum fuel efficiency and reliability thereby providing low operational costs and reduced noise levels while increasing illumination coverage. **PREM POWER** Best solution to your needs.

Powered By **KOHLER**



### APPLICATION USE :

- Rural and hard to reach areas.
- Emergency response.
- Construction and road work sites.
- Gas, Oil and Mining operation.
- Military application.
- Sporting events.

### KEY BENEFITS :

- Easy to move.
- Robustness.
- Safety.
- Cost effective.

### LED LIGHTS :

- 4 X 200 Watts
- 4 X 250 Watts
- 4 X 400 Watts

\* Warranty as per company policy for Generator and Led Lights.

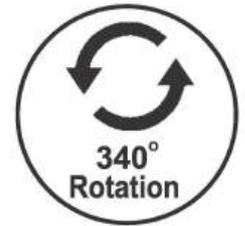
# MOBILE LIGHT TOWER (MLT)

**PREM  
POWER**®

This **PREM POWER** light tower is ideal to use in tough and remote environments, such as applications in construction, mining and rental companies. This is portable and allows maximum fuel efficiency and reliability thereby providing low operational costs and reduced noise levels while increasing illumination coverage.

**PREM POWER** best solution to your needs.

An  
ISO  
9001 : 2015  
Certified  
Company



## Applications Use :

- Special events.
- Rural & hard to reach areas.
- Emergency response.
- Construction & work sites.
- Gas, oil & mining operations
- Military applications.
- Sporting events.

## Key Benefits :

- Easy to move.
- Robustness.
- Safety.
- Cost effective.

## LED Lights

### Option Available :

- 4 X 200 Watts
- 4 X 300 Watts
- 4 X 400 Watts
- 4 X 500 Watts

## Generator

7.5Kva  
10 Kva



\* Warranty as per company policy for Generator and Led Lights.

# MOBILE LIGHT TOWER (MLT)

**PREM**  
**POWER**

This **PREM POWER** light tower is ideal to use in tough and remote environments, such as applications in construction, mining and rental companies. This is portable and allows maximum fuel efficiency and reliability thereby providing low operational costs and reduced noise levels while increasing illumination coverage.

An  
ISO  
9001 : 2015  
Certified  
Company

CE

340°  
Rotation

**PREM POWER** best solution to your needs.

## Applications Use :

- Special events.
- Rural & hard to reach areas.
- Emergency response.
- Construction & work sites.
- Gas, oil & mining operations
- Military applications. Sporting events.

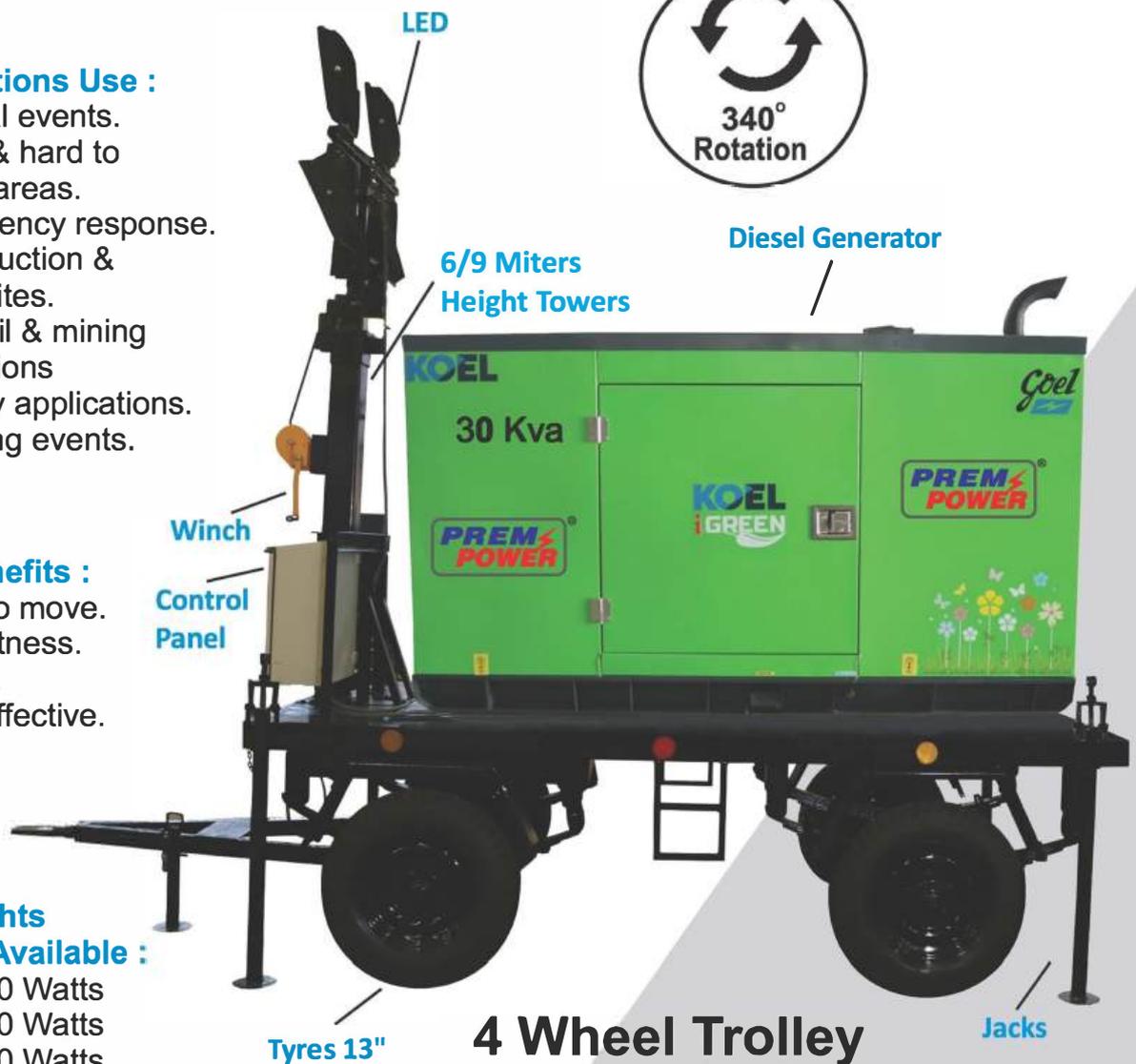
## Key Benefits :

- Easy to move.
- Robustness.
- Safety.
- Cost effective.

## LED Lights

### Option Available :

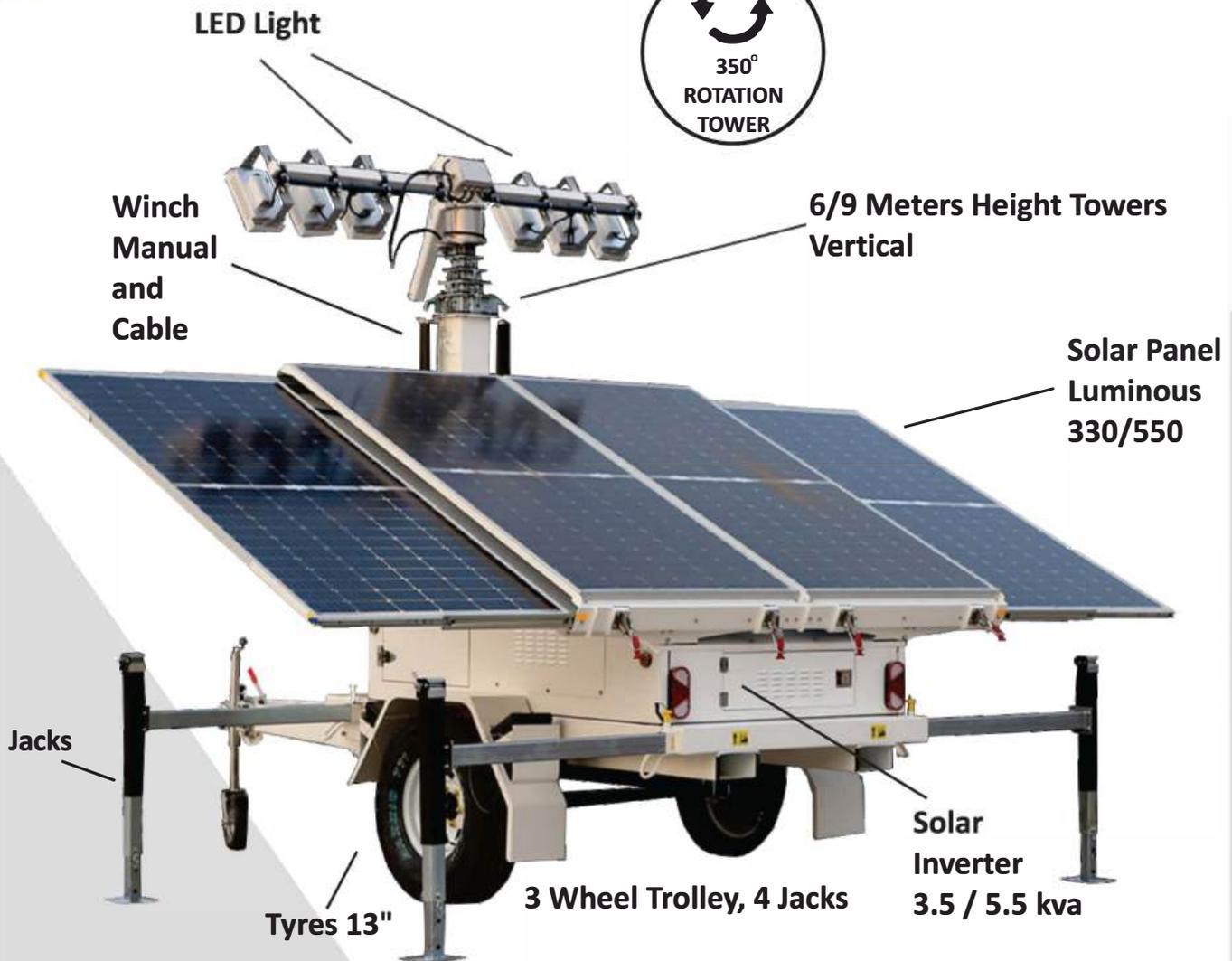
- 4 X 200 Watts
- 4 X 300 Watts
- 4 X 400 Watts
- 4 X 500 Watts



**PREM**  
**POWER**

# SOLAR LIGHT TOWER

This **PREM POWER** solar light tower is ideal to use in tough and remote environments, it has application in construction, mining and rental companies.



## APPLICATION USE :

- Rural and hard to reach areas.
- Emergency response.
- Construction and road work sites.
- Gas, Oil and Mining operation.
- Military application.
- Sporting events.

## KEY BENEFITS :

- Easy to move.
- Robustness.
- Safety.
- Cost effective.

## LED LIGHTS :

- 4 X 100 Watts
- 4 X 150 Watts

## SOLAR MAKE

- Luminous Inverter
- Luminous Solar Panel
- Luminous Batteries

\* Warranty as per company policy for Luminous and Led Lights.