25 KVA TATA Silent Diesel Generator

Power (kVA)	25 kVA
Genset Brand	Powerlux
Engine Make	TATA
Phase	3 Phase
Cooling System	Water Cooling
Material	MS
Noise Level	Silent or Soundproof
Frequency	50 Hz
Dimension	2500 x 1100 x 1540 mm
Dg Set Model	TPDG25
Weight	1080 Kg
Voltage	415 V
Engine Model	4SPTC25
Rated Current	108 Amp at 230 V, 35 Amp at 415 V
Brake Horsepower	40 BHP
No Of Cylinder	4
Fuel Tank	135 L

Engine basic specifications:-

TATA MOTORS PRO POWER
Power that you can trust

The Next Generation Engine

- 2960cc
- 4 Cylinder In-line
- 40HP Raw Power with 1500 RPM

- Bosh Fuel Injection Pump
  - Water Cooled technology
  - 6 Liter lube oil capacity
- 100% JERK loading capacity*
  - AVM Pads
  - Coolant Recovery Bottle
  - Battery Charger Alternator
  - Class A1 Governor
  - Safety Sensors
  - Separate Radiator Mounting for vibration free performance



Alternator: : ***Stamford / Leroy Somer*** make shall be coupled to the engine as per approved makes by TATA MOTORS LIMITED**.** The coupling standards of alternator and engine have 100% accuracy which delivers smooth performance and a long life of product.

- Alternator basic specifications:-
  - 25kVA/20kW Output
  - Single bearing&Brushless type
  - H Class insulation with IP23 Protection
  - 0.8 Power Factor & self-excited

± 1% voltage regulation (max)

Control Panel: DeepSea

DEEPSEA make(made in UK)controller fitted in a panel made of 1.6mm powder coated CRCA sheet with all necessary electrical equipment's fitted in it like MCCB, Current transformers, Fuse, Cables, Conductors etc. The DEEPSEA controller are approved by TATA MOTORS LIMITEDand all the parameters are preset as per the guidelines. The DEEPSEA controller is a Micro-processor based Integrated DG set Controller with built-in Remote START / STOP facility mounted in the facial of the control panel with a large LCD display panel with the continuous scrolling features. The following Protection / Control / Display features are provided for the DG set.



- State-of-the-art Microprocessor based fully configurable technolog
- High performance graphical LCD and prominent display showing:
- • VAF (Voltage, Ampere, Frequency)
- • RPM
- • Run Hours
- • Low Lube Oil Pressure
- • Diesel Level
- • Overload
- • Emergency Stop
- • Fail to start with reason
- • Battery Voltage etc.

- **S**tandard built-in microprocessor-based controller with in built AMF Module with Fault finding chart inside DG Panel to diagnose and troubleshoot the error immediately. The errors are summed up into 20 icons which gets displayed on LCD screen.

- **B**uilt with additional safeties like Over Voltage, Under Voltage, Over frequency, Under frequency, Over excitation, Low battery Voltage, Low Lube Oil pressure, Over speed etc. These sets are designed to provide pre-warning to protect machine undergoing fault condition and thus avoid further deterioration on a long run and safeguard the sensitive loads.

- Fault Finding Chart provided with DG panel to diagnose and troubleshoot the error immediately. The errors are summed up into 20 icons which gets displayed on LCD screen.

- **I**nbuilt Offline Battery Charger inside Standard Control Panel which keeps the battery charged and ready to crank even if the dg set is not

operational.

- **H**ighest Block Loading Capability across the range in the Industry.

- **C**anopies designed to maintain air flow and ambient temperatures. Testing done in high temperature zones at full load and proved to be the best of long running hours.

- **H**igh fuel efficiency even at part loads, fuel consumption figures provided even for 25% load in the specification sheets for the entire range.

- **S**ets are most compact with single bearing alternator and built-in spring pads between engine / alternator and the base frame and have inbuilt Silencer inside the Acoustic Enclosure.

- **S**pecial coated doors foam to prevent oil and diesel absorption and preventing fire to escalate

- **D**oor lock lever and key made of brass for ZERO rusting compared to Mild steel and Hinge pin made of SS to support HIGH QUALITY CASTING.

- PVC Glands inside panel instead of Rubber Gurmut to prevent current passing into body.

- **F**unnel type Diesel input point comfortably placed in open space for easy fillinG.

- **R**ain Guard placed on all doors to prevent rain water entering inside canopy and keeping gensetsafe for longer period

Other Essentials:

- Engines are tested as per IS 10000 standards
- Superior Quality alternators are used confirming to IS13364, IS4722 & BS5000 standards
- Technologically advanced control panels with deep sea/ Procom controller
- Heavy, Robust and sound efficient DG gets confirming to CPCB-II norms & rule 95 of environment protection of GSR no of 771 (E) & GSR 232 (E)

How to Calculate Load:

- Put on only those equipments which you want to run on the Powerlux Silent Generator.
- Go near the distribution box where you'll find four colored cables; Red, Yellow, Blue & Black.

- Put the clamp meter around the Red, Yellow & Blue cable one by one and note down the ampere rating. Now add the numbers in case of single phase requirement or pick the highest in case of three phase requirement.
- Select your kVA from the above given ampere chart and see under which rating your requirement falls.

Note:

- After putting the clamp meter around the cable; turn off and on the heavy machines/equipments for better calculation. Also always select a rating 20% higher to your load for long term usage.All of the above silent genset range is made to perform at 1500 RPM
- Rated current output is at 100% load. 0.8 power factor
- Weight mentioned is approximate
- Product innovation is a continuous process; hence data given is subject to change without any prior notice.
- Detailed technical specification sheet separately available for each rating in soft copy

30 KVA TATA Silent Diesel Generator

Power (kVA)	30 kVA
Genset Brand	Powerlux
Engine Make	TATA
Phase	3 Phase
Noise Level	Silent or Soundproof
Frequency	50 Hz
Engine Model	4SPTC30
Dimension	2500 x 1100 x 1540 mm
Fuel Tank Capacity	135 L
Dg Set Model	TPDG30
Weight	1120 Kg
Rated Current	130 Amp at 230 V, 42 Amp at 415 V
Brake Horsepower	48
No Of Cylinder	4
Aspiration	TCIC
Cooling System	Liquid
Cable	2C-95/3.5C-35 Sq. mm.

Engine: TATA MOTORS LIMITED Pro Power engines

Engine basic specifications:-

- 2960cc
- 4 Cylinder In-line
- 40HP Raw Power with 1500 RPM
- Bosh Fuel Injection Pump
- Water Cooled technology
- 6 Liter lube oil capacity
- 100% JERK loading capacity*
- AVM Pads

• Coolant Recovery Bottle
• Battery Charger Alternator
• Class A1 Governor
• Safety Sensors
• Separate Radiator Mounting for vibration free performance

Alternator: Stamford / Equivalentmake shall be coupled to the engine as per approved makes by TATA MOTORS LIMITED. The coupling standards of alternator and engine have 100% accuracy which delivers smooth performance and a long life of product.

Alternator basic specifications:-

• 30kVA/24kW Output
• Single bearing
• Brushless type
• H Class insulation
• IP23 Protection
• 0.8 Power Factor etc.
• + 1% voltage regulation (max)
• Self excited
• Conforming to IS13364, IS4722 & BS5000 Standards

Control Panel: DeepSea

DEEPSEA make(made in UK)controller fitted in a panel made of 1.6mm powder coated CRCA sheet with all necessary electrical equipment's fitted in it like MCCB, Current transformers, Fuse, Cables, Conductors etc. The DEEPSEA controller are approved by TATA MOTORS LIMITEDand all the parameters are preset as per the guidelines. The DEEPSEA controller is a Micro-processor based Integrated DG set Controller with built-in Remote

START / STOP facility mounted in the facial of the control panel with a large LCD display panel with the continuous scrolling features. The following Protection / Control / Display features are provided for the DG set.

- State-of-the-art Microprocessor based fully configurable technology
- High performance graphical LCD and prominent display showing:
- • VAF (Voltage, Ampere, Frequency)
- • RPM
- • Run Hours
- • Low Lube Oil Pressure
- • Diesel Level
- • Overload
- • Emergency Stop
- • Fail to start with reason
- • Battery Voltage etc.



- **S**tandard built-in microprocessor-based controller with in built AMF Module with Fault finding chart inside DG Panel to diagnose and troubleshoot the error immediately. The errors are summed up into 20 icons which gets displayed on LCD screen.

- **B**uilt with additional safeties like Over Voltage, Under Voltage, Over frequency, Under frequency, Over excitation, Low battery Voltage, Low Lube Oil pressure, Over speed etc. These sets are designed to provide pre-warning to protect machine undergoing fault condition and thus avoid further deterioration on a long run and safeguard the sensitive loads.

- Fault Finding Chart provided with DG panel to diagnose and troubleshoot the error immediately. The errors are summed up into 20 icons which gets displayed on LCD screen.

- **I**nbuilt Offline Battery Charger inside Standard Control Panel which keeps the battery charged and ready to crank even if the dg set is not operational.

- **H**ighest Block Loading Capability across the range in the Industry.

- **C**anopies designed to maintain air flow and ambient temperatures. Testing done in high temperature zones at full load and proved to be the best of long running hours.

- **H**igh fuel efficiency even at part loads, fuel consumption figures provided even for 25% load in the specification sheets for the entire range.

- **S**ets are most compact with single bearing alternator and built-in spring pads between engine / alternator and the base frame and have inbuilt Silencer inside the Acoustic Enclosure.

- **S**pecial coated doors foam to prevent oil and diesel absorption and preventing fire to escalate

- **D**oor lock lever and key made of brass for ZERO rusting compared to Mild steel and Hinge pin made of SS to support HIGH QUALITY CASTING.

- PVC Glands inside panel instead of Rubber Gurmut to prevent current passing into body.

- **F**unnel type Diesel input point comfortably placed in open space for easy fillinG.

- **R**ain Guard placed on all doors to prevent rain water entering inside canopy and keeping gensetsafe for longer period

Other Essentials:

- Engines are tested as per IS 10000 standards
- Superior Quality alternators are used confirming to IS13364, IS4722 & BS5000 standards
- Technologically advanced control panels with deep sea/ Procom controller
- Heavy, Robust and sound efficient DG gets confirming to CPCB-II norms & rule 95 of environment protection of GSR no of 771 (E) & GSR 232 (E)

How to Calculate Load:

- Put on only those equipments which you want to run on the Powerlux Silent Generator.
- Go near the distribution box where you'll find four colored cables; Red, Yellow, Blue & Black.
- Put the clamp meter around the Red, Yellow & Blue cable one by one and note down the ampere rating. Now add the numbers in case of single phase requirement or pick the highest in case of three phase requirement.
- Select your kVA from the above given ampere chart and see under which rating your requirement falls.

Note:

- After putting the clamp meter around the cable; turn off and on the heavy machines/equipments for better calculation. Also always select a rating 20% higher to your load for long term usage.

- All of the above silent genset range is made to perform at 1500 RPM
- Rated current output is at 100% load. 0.8 power factor
- Weight mentioned is approximate
- Product innovation is a continuous process; hence data given is subject to change without any prior notice.
- Detailed technical specification sheet separately available for each rating in soft copy

35 kVA TATA Silent Diesel Generator, 3 Phase

Power (kVA)	35 kVA
Genset Brand	Powerlux
Model Number	TPDG35
Engine Make	TATA
Phase	3 Phase
Noise Level	Silent or Soundproof
Dry Weight (Kg)	1236
Frequency	50 Hz
Dimension	2800 x 1100 x 1540 mm
Fuel Tank Capacity	135 L
Rated Current	152 Amp at 230 V, 49 Amp at 415 V
Brake Horsepower	56 BHP
No Of Cylinder	4
Aspiration	TCIC

Control Panel: DeepSea

DEEPSEA make(made in UK)controller fitted in a panel made of 1.6mm powder coated CRCA sheet with all necessary electrical equipment's fitted in it like MCCB, Current transformers, Fuse, Cables, Conductors etc. The DEEPSEA controller are approved by TATA MOTORS LIMITEDand all the parameters are preset as per the guidelines. The DEEPSEA controller is a Micro-processor

based Integrated DG set Controller with built-in Remote START / STOP facility mounted in the facial of the control panel with a large LCD display panel with the continuous scrolling features. The following Protection / Control / Display features are provided for the DG set.

- State-of-the-art Microprocessor based fully configurable technology
- High performance graphical LCD and prominent display showing:
- • VAF (Voltage, Ampere, Frequency)
- • RPM
- • Run Hours
- • Low Lube Oil Pressure
- • Diesel Level
- • Overload
- • Emergency Stop
- • Fail to start with reason
- • Battery Voltage etc.



- **S**tandard built-in microprocessor-based controller with in built AMF Module with Fault finding chart inside DG Panel to diagnose and troubleshoot the error immediately. The errors are summed up into 20 icons which gets displayed on LCD screen.

- **B**uilt with additional safeties like Over Voltage, Under Voltage, Over frequency, Under frequency, Over excitation, Low battery Voltage, Low Lube Oil pressure, Over speed etc. These sets are designed to provide pre-warning to protect machine undergoing fault condition and thus avoid further deterioration on a long run and safeguard the sensitive loads.

- Fault Finding Chart provided with DG panel to diagnose and troubleshoot the error immediately. The errors are summed up into 20 icons which gets displayed on LCD screen.

- **I**nbuilt Offline Battery Charger inside Standard Control Panel which keeps the battery charged and ready to crank even if the dg set is not operational.

- **H**ighest Block Loading Capability across the range in the Industry.

- **C**anopies designed to maintain air flow and ambient temperatures. Testing done in high temperature zones at full load and proved to be the best of long running hours.

- **H**igh fuel efficiency even at part loads, fuel consumption figures provided even for 25% load in the specification sheets for the entire range.

- **S**ets are most compact with single bearing alternator and built-in spring pads between engine / alternator and the base frame and have inbuilt Silencer inside the Acoustic Enclosure.

- **S**pecial coated doors foam to prevent oil and diesel absorption and preventing fire to escalate

- **D**oor lock lever and key made of brass for ZERO rusting compared to Mild steel and Hinge pin made of SS to support HIGH QUALITY CASTING.

- PVC Glands inside panel instead of Rubber Gurmut to prevent current passing into body.

- **F**unnel type Diesel input point comfortably placed in open space for easy fillinG.

- **R**ain Guard placed on all doors to prevent rain water entering inside canopy and keeping gensetsafe for longer period

Cable (alumn.):

- 2C-120/3.5C-50 Sq. mm.

Other Essentials:

- Engines are tested as per IS 10000 standards
- Superior Quality alternators are used confirming to IS13364, IS4722 & BS5000 standards
- Technologically advanced control panels with deep sea/ Procom controller
- Heavy, Robust and sound efficient DG gets confirming to CPCB-II norms & rule 95 of environment protection of GSR no of 771 (E) & GSR 232 (E)

How to Calculate Load:

- Put on only those equipments which you want to run on the Powerlux Silent Generator.
- Go near the distribution box where you'll find four colored cables; Red, Yellow, Blue & Black.
- Put the clamp meter around the Red, Yellow & Blue cable one by one and note down the ampere rating. Now add the numbers in case of

single phase requirement or pick the highest in case of three phase requirement.

- Select your kVA from the above given ampere chart and see under which rating your requirement falls.

Note:

- After putting the clamp meter around the cable; turn off and on the heavy machines/equipments for better calculation. Also always select a rating 20% higher to your load for long term usage.
- All of the above silent genset range is made to perform at 1500 RPM
- Rated current output is at 100% load. 0.8 power factor
- Weight mentioned is approximate
- Product innovation is a continuous process; hence data given is subject to change without any prior notice.
- Detailed technical specification sheet separately available for each rating in soft copy

40 KVA TATA Silent Diesel Generator, 3 Phase

Power (kVA)	40 kVA
Genset Brand	Ashok Leyland
Engine Make	TATA
Phase	3 Phase
Power	40 kVA/32 kW
Noise Level	Silent or Soundproof
Frequency	50 Hz
Engine Model	497TC76
Dimension	2800 x 1100 x 1540 mm
Fuel Tank Capacity	135 L
Dg Set Model	TPDG40
Weight	1242 Kg
Rated Current	174 Amp at 230 V, 56 Amp at 415 V
Brake Horsepower	63 BHP
No Of Cylinder	4
Aspiration	TCIC

Engine: TATA MOTORS LIMITED Pro Power engines

Engine basic specifications:-

Engine basic specifications: -

- 2960cc
- 4 Cylinder In-line
- 56HP Raw Power with 1500 RPM
- **Bosh Fuel Injection Pump**
- Water Cooled technology
- 7 Liter lube oil capacity
- **100% JERK loading capacity***
- AVM Pads

TATA MOTORS PRO POWER Power that you can trust

The Next Generation Engine



- Coolant Recovery Bottle
- Battery Charger Alternator
- Class A1 Governor
- Safety Sensors
- Separate Radiator Mounting for vibration free performance

Alternator: ***Stamford / Leroy Somer or Equivalent*** make shall be coupled to the engine as per approved makes by TATA MOTORS LIMITED**.** The coupling standards of alternator and engine have 100% accuracy which delivers smooth performance and a long life of product.

Alternator basic specifications: -

- 40kVA/32kW Output
- Single bearing & Brushless type
- H Class insulation with IP23 Protection
- 0.8 Power Factor & self-excited
- **± 1% voltage regulation (max)**

Control Panel: DeepSea

DEEPSEA make(made in UK)controller fitted in a panel made of 1.6mm powder coated CRCA sheet with all necessary electrical equipment's fitted in it like MCCB, Current transformers, Fuse, Cables, Conductors etc. The DEEPSEA controller are approved by TATA MOTORS LIMITEDand all the parameters are preset as per the guidelines. The DEEPSEA controller is a Micro-processor based Integrated DG set Controller with built-in Remote START / STOP facility mounted in the facial of the control panel with a large LCD display panel with the continuous scrolling features. The following Protection / Control / Display features are provided for the DG set.

- State-of-the-art Microprocessor based fully configurable technology
- High performance graphical LCD and prominent display showing:
- • VAF (Voltage, Ampere, Frequency)
- • RPM
- • Run Hours
- • Low Lube Oil Pressure
- • Diesel Level



- • Overload
- • Emergency Stop
- • Fail to start with reason
- • Battery Voltage etc.

- **S**tandard built-in microprocessor-based controller with in built AMF Module with Fault finding chart inside DG Panel to diagnose and troubleshoot the error immediately. The errors are summed up into 20 icons which gets displayed on LCD screen.

- **B**uilt with additional safeties like Over Voltage, Under Voltage, Over frequency, Under frequency, Over excitation, Low battery Voltage, Low Lube Oil pressure, Over speed etc. These sets are designed to provide pre-warning to protect machine undergoing fault condition and thus avoid further deterioration on a long run and safeguard the sensitive loads.

- Fault Finding Chart provided with DG panel to diagnose and troubleshoot the error immediately. The errors are summed up into 20 icons which gets displayed on LCD screen.

- **I**nbuilt Offline Battery Charger inside Standard Control Panel which keeps the battery charged and ready to crank even if the dg set is not operational.

- **H**ighest Block Loading Capability across the range in the Industry.

- **C**anopies designed to maintain air flow and ambient temperatures. Testing done in high temperature zones at full load and proved to be the best of long running hours.

- **H**igh fuel efficiency even at part loads, fuel consumption figures provided even for 25% load in the specification sheets for the entire range.

- **S**ets are most compact with single bearing alternator and built-in spring pads between engine / alternator and the base frame and have inbuilt Silencer inside the Acoustic Enclosure.

- **S**pecial coated doors foam to prevent oil and diesel absorption and preventing fire to escalate

- **D**oor lock lever and key made of brass for ZERO rusting compared to Mild steel and Hinge pin made of SS to support HIGH QUALITY CASTING.

- PVC Glands inside panel instead of Rubber Gurmut to prevent current passing into body.

- **F**unnel type Diesel input point comfortably placed in open space for easy fillinG.

- **R**ain Guard placed on all doors to prevent rain water entering inside canopy and keeping gensetsafe for longer period

Other Essentials:

- Engines are tested as per IS 10000 standards
- Superior Quality alternators are used confirming to IS13364, IS4722 & BS5000 standards
- Technologically advanced control panels with deep sea/ Procom controller
- Heavy, Robust and sound efficient DG gets confirming to CPCB-II norms & rule 95 of environment protection of GSR no of 771 (E) & GSR 232 (E)

How to Calculate Load:

- Put on only those equipments which you want to run on the Powerlux Silent Generator.
- Go near the distribution box where you'll find four colored cables; Red, Yellow, Blue & Black.
- Put the clamp meter around the Red, Yellow & Blue cable one by one and note down the ampere rating. Now add the numbers in case of single phase requirement or pick the highest in case of three phase requirement.
- Select your kVA from the above given ampere chart and see under which rating your requirement falls.

Note:

- After putting the clamp meter around the cable; turn off and on the heavy machines/equipments for better calculation. Also always select a rating 20% higher to your load for long term usage.
- All of the above silent genset range is made to perform at 1500 RPM
- Rated current output is at 100% load. 0.8 power factor
- Weight mentioned is approximate
- Product innovation is a continuous process; hence data given is subject to change without any prior notice.

45 kVA TATA Silent Diesel Generator, 3 Phase.

Power (kVA)	45 kVA
Genset Brand	Powerlux
Engine Make	TATA
Phase	3 Phase
Noise Level	Silent or Soundproof
Fuel type	Diesel
Frequency	50 Hz
Engine Model	497TC75
Dimension	2800 x 1100 x 1540 mm
Fuel Tank Capacity	135 L
Rated Current	63 Amp at 415 V
Dg Set Model	TPDG45
Weight	1254 Kg
Brake Horsepower	75 BHP

Engine: TATA MOTORS LIMITED Pro Power engines

Engine basic specifications:-

Control Panel: DeepSea

DEEPSEA make(made in UK)controller fitted in a panel made of 1.6mm powder coated CRCA sheet with all necessary electrical equipment's fitted in it like MCCB, Current transformers, Fuse, Cables, Conductors etc. The DEEPSEA controller are approved by TATA MOTORS LIMITEDand all the parameters are preset as per the guidelines. The DEEPSEA controller is a Micro-processor based Integrated DG set Controller with built-in Remote START / STOP facility mounted in the facial of the control panel with a large LCD display panel with the continuous scrolling features. The following Protection / Control / Display features are provided for the DG set.

- State-of-the-art Microprocessor based fully configurable technology
- High performance graphical LCD and prominent display showing:
- • VAF (Voltage, Ampere, Frequency)
- • RPM
- • Run Hours
- • Low Lube Oil Pressure
- • Diesel Level
- • Overload
- • Emergency Stop
- • Fail to start with reason
- • Battery Voltage etc.



- **S**tandard built-in microprocessor-based controller with in built AMF Module with Fault finding chart inside DG Panel to diagnose and troubleshoot the error immediately. The errors are summed up into 20 icons which gets displayed on LCD screen.

- **B**uilt with additional safeties like Over Voltage, Under Voltage, Over frequency, Under frequency, Over excitation, Low battery Voltage, Low Lube Oil pressure, Over speed etc. These sets are designed to provide pre-warning to protect machine undergoing fault condition and thus avoid further deterioration on a long run and safeguard the sensitive loads.

- Fault Finding Chart provided with DG panel to diagnose and troubleshoot the error immediately. The errors are summed up into 20 icons which gets displayed on LCD screen.

- **I**nbuilt Offline Battery Charger inside Standard Control Panel which keeps the battery charged and ready to crank even if the dg set is not operational.

- **H**ighest Block Loading Capability across the range in the Industry.

- **C**anopies designed to maintain air flow and ambient temperatures. Testing done in high temperature zones at full load and proved to be the best of long running hours.

- **H**igh fuel efficiency even at part loads, fuel consumption figures provided even for 25% load in the specification sheets for the entire range.

- **S**ets are most compact with single bearing alternator and built-in spring pads between engine / alternator and the base frame and have inbuilt Silencer inside the Acoustic Enclosure.

- **S**pecial coated doors foam to prevent oil and diesel absorption and preventing fire to escalate

- **D**oor lock lever and key made of brass for ZERO rusting compared to Mild steel and Hinge pin made of SS to support HIGH QUALITY CASTING.

- PVC Glands inside panel instead of Rubber Gurmut to prevent current passing into body.

- **F**unnel type Diesel input point comfortably placed in open space for easy fillinG.

- **R**ain Guard placed on all doors to prevent rain water entering inside canopy and keeping gensetsafe for longer period

Other Essentials:

- Engines are tested as per IS 10000 standards
- Superior Quality alternators are used confirming to IS13364, IS4722 & BS5000 standards
- Technologically advanced control panels with deep sea/ Procom controller
- Heavy, Robust and sound efficient DG gets confirming to CPCB-II norms & rule 95 of environment protection of GSR no of 771 (E) & GSR 232 (E)

How to Calculate Load:

- Put on only those equipments which you want to run on the Powerlux Silent Generator.
- Go near the distribution box where you'll find four colored cables; Red, Yellow, Blue & Black.
- Put the clamp meter around the Red, Yellow & Blue cable one by one and note down the ampere rating. Now add the numbers in case of single phase requirement or pick the highest in case of three phase requirement.
- Select your kVA from the above given ampere chart and see under which rating your requirement falls.

Note:

- After putting the clamp meter around the cable; turn off and on the heavy machines/equipments for better calculation. Also always select a rating 20% higher to your load for long term usage.
- All of the above silent genset range is made to perform at 1500 RPM
- Rated current output is at 100% load. 0.8 power factor

- Weight mentioned is approximate
- Product innovation is a continuous process; hence data given is subject to change without any prior notice.
- Detailed technical specification sheet separately available for each rating in soft copy

50 kVA TATA Silent Diesel Generator, 3 Phase

Power (kVA)	50 kVA
Genset Brand	Powerlux
Engine Make	TATA
Phase	3 Phase
Power	50 kVA/40 kW
Noise Level	Silent or Soundproof
Fuel type	Diesel
Frequency	50 Hz
Engine Model	497TC75
Dimension	2800 x 1100 x 1540 mm
Fuel Tank Capacity	135 L
Rated Current	70 Amp at 415 V
Dg Set Model	TPDG50
Weight	1272 Kg
Brake Horsepower	75 BHP
No Of Cylinder	4

Control Panel: DeepSea

DEEPSEA make(made in UK)controller fitted in a panel made of 1.6mm powder coated CRCA sheet with all necessary electrical equipment's fitted in it like MCCB, Current transformers, Fuse, Cables, Conductors etc. The DEEPSEA controller are approved by TATA MOTORS LIMITEDand all the parameters are preset as per the guidelines. The DEEPSEA controller is a Micro-processor

based Integrated DG set Controller with built-in Remote START / STOP facility mounted in the facial of the control panel with a large LCD display panel with the continuous scrolling features. The following Protection / Control / Display features are provided for the DG set.

- State-of-the-art Microprocessor based fully configurable technology
- High performance graphical LCD and prominent display showing:
- • VAF (Voltage, Ampere, Frequency)
- • RPM
- • Run Hours
- • Low Lube Oil Pressure
- • Diesel Level
- • Overload
- • Emergency Stop
- • Fail to start with reason
- • Battery Voltage etc.



- **S**tandard built-in microprocessor-based controller with in built AMF Module with Fault finding chart inside DG Panel to diagnose and troubleshoot the error immediately. The errors are summed up into 20 icons which gets displayed on LCD screen.

- **B**uilt with additional safeties like Over Voltage, Under Voltage, Over frequency, Under frequency, Over excitation, Low battery Voltage, Low Lube Oil pressure, Over speed etc. These sets are designed to provide pre-warning to protect machine undergoing fault condition and thus avoid further deterioration on a long run and safeguard the sensitive loads.

- Fault Finding Chart provided with DG panel to diagnose and troubleshoot the error immediately. The errors are summed up into 20 icons which gets displayed on LCD screen.

- **I**nbuilt Offline Battery Charger inside Standard Control Panel which keeps the battery charged and ready to crank even if the dg set is not operational.

- **H**ighest Block Loading Capability across the range in the Industry.

- **C**anopies designed to maintain air flow and ambient temperatures. Testing done in high temperature zones at full load and proved to be the best of long running hours.

- **H**igh fuel efficiency even at part loads, fuel consumption figures provided even for 25% load in the specification sheets for the entire range.

- **S**ets are most compact with single bearing alternator and built-in spring pads between engine / alternator and the base frame and have inbuilt Silencer inside the Acoustic Enclosure.

- **S**pecial coated doors foam to prevent oil and diesel absorption and preventing fire to escalate

- **D**oor lock lever and key made of brass for ZERO rusting compared to Mild steel and Hinge pin made of SS to support HIGH QUALITY CASTING.

- PVC Glands inside panel instead of Rubber Gurmut to prevent current passing into body.

- **F**unnel type Diesel input point comfortably placed in open space for easy fillinG.

- **R**ain Guard placed on all doors to prevent rain water entering inside canopy and keeping gensetsafe for longer period

Other Essentials:

- Engines are tested as per IS 10000 standards
- Superior Quality alternators are used confirming to IS13364, IS4722 & BS5000 standards
- Technologically advanced control panels with deep sea/ Procom controller
- Heavy, Robust and sound efficient DG gets confirming to CPCB-II norms & rule 95 of environment protection of GSR no of 771 (E) & GSR 232 (E)

How to Calculate Load:

- Put on only those equipments which you want to run on the Powerlux Silent Generator.
- Go near the distribution box where you'll find four colored cables; Red, Yellow, Blue & Black.
- Put the clamp meter around the Red, Yellow & Blue cable one by one and note down the ampere rating. Now add the numbers in case of single phase requirement or pick the highest in case of three phase requirement.
- Select your kVA from the above given ampere chart and see under which rating your requirement falls.

Note:

- After putting the clamp meter around the cable; turn off and on the heavy machines/equipments for better calculation. Also always select a rating 20% higher to your load for long term usage.
- All of the above silent genset range is made to perform at 1500 RPM
- Rated current output is at 100% load. 0.8 power factor
- Weight mentioned is approximate
- Product innovation is a continuous process; hence data given is subject to change without any prior notice.
- Detailed technical specification sheet separately available for each rating in soft copy

62.5 kVA TATA Silent Diesel Generator

Power (kVA)	62.5 kVA
Genset Brand	Powerlux
Engine Make	TATA
Phase	3 Phase
Noise Level	Silent or Soundproof
Fuel type	Diesel
Frequency	50 Hz
Engine Model	497TC74
Dimension	2800 x 1100 x 1540 mm
Fuel Tank Capacity	135 L
Rated Current	87 Amps at 415V
Dg Set Model	TPDG62.5
Weight	1279 Kg
Brake Horsepower	BHP 90
No Of Cylinder	4

Control Panel: DeepSea

DEEPSEA make(made in UK)controller fitted in a panel made of 1.6mm powder coated CRCA sheet with all necessary electrical equipment's fitted in it like MCCB, Current transformers, Fuse, Cables, Conductors etc. The DEEPSEA controller are approved by TATA MOTORS

LIMITEDand all the parameters are preset as per the guidelines. The DEEPSEA controller is a Micro-processor based Integrated DG set Controller with built-in Remote START / STOP facility mounted in the facial of the control panel with a large LCD display panel with the continuous scrolling features. The following Protection / Control / Display features are provided for the DG set.

- State-of-the-art Microprocessor based fully configurable technology
- High performance graphical LCD and prominent display showing:
- • VAF (Voltage, Ampere, Frequency)
- • RPM
- • Run Hours
- • Low Lube Oil Pressure
- • Diesel Level
- • Overload
- • Emergency Stop
- • Fail to start with reason
- • Battery Voltage etc.



- **S**tandard built-in microprocessor-based controller with in built AMF Module with Fault finding chart inside DG Panel to diagnose and troubleshoot the error immediately. The errors are summed up into 20 icons which gets displayed on LCD screen.

- **B**uilt with additional safeties like Over Voltage, Under Voltage, Over frequency, Under frequency, Over excitation, Low battery Voltage, Low Lube Oil pressure, Over speed etc. These sets are designed to provide pre-warning to protect machine undergoing fault condition and thus avoid further deterioration on a long run and safeguard the sensitive loads.

- Fault Finding Chart provided with DG panel to diagnose and troubleshoot the error immediately. The errors are summed up into 20 icons which gets displayed on LCD screen.

- **I**nbuilt Offline Battery Charger inside Standard Control Panel which keeps the battery charged and ready to crank even if the dg set is not operational.

- **H**ighest Block Loading Capability across the range in the Industry.

- **C**anopies designed to maintain air flow and ambient temperatures. Testing done in high temperature zones at full load and proved to be the best of long running hours.

- **H**igh fuel efficiency even at part loads, fuel consumption figures provided even for 25% load in the specification sheets for the entire range.

- **S**ets are most compact with single bearing alternator and built-in spring pads between engine / alternator and the base frame and have inbuilt Silencer inside the Acoustic Enclosure.

- **S**pecial coated doors foam to prevent oil and diesel absorption and preventing fire to escalate

- **D**oor lock lever and key made of brass for ZERO rusting compared to Mild steel and Hinge pin made of SS to support HIGH QUALITY CASTING.

- PVC Glands inside panel instead of Rubber Gurmut to prevent current passing into body.

- **F**unnel type Diesel input point comfortably placed in open space for easy fillinG.

- **R**ain Guard placed on all doors to prevent rain water entering inside canopy and keeping gensetsafe for longer period

Cable Alumn.:

- 3.5C-70 Sq. mm.

Other Essentials:

- Engines are tested as per IS 10000 standards
- Superior Quality alternators are used confirming to IS13364, IS4722 & BS5000 standards
- Technologically advanced control panels with deep sea/ Procom controller
- Heavy, Robust and sound efficient DG gets confirming to CPCB-II norms & rule 95 of environment protection of GSR no of 771 (E) & GSR 232 (E)

How to Calculate Load:

- Put on only those equipments which you want to run on the Powerlux Silent Generator.
- Go near the distribution box where you'll find four colored cables; Red, Yellow, Blue & Black.
- Put the clamp meter around the Red, Yellow & Blue cable one by one and note down the ampere rating. Now add the numbers in case of

single phase requirement or pick the highest in case of three phase requirement.

- Select your kVA from the above given ampere chart and see under which rating your requirement falls.

Note:

- After putting the clamp meter around the cable; turn off and on the heavy machines/equipments for better calculation. Also always select a rating 20% higher to your load for long term usage.
- All of the above silent genset range is made to perform at 1500 RPM
- Rated current output is at 100% load. 0.8 power factor
- Weight mentioned is approximate
- Product innovation is a continuous process; hence data given is subject to change without any prior notice.
- Detailed technical specification sheet separately available for each rating in soft copy

75 kVA TATA Silent Diesel Generator, 3 Phase

Power (kVA)	75 kVA
Genset Brand	Powerlux
Engine Make	TATA
Phase	3 Phase
Cooling System	Liquid
Power	75 kVA/60 kW
Fuel type	Diesel
Frequency	50 Hz
Dimension	3200 x 1250 x 1500 mm
Fuel Tank Capacity	205 L
Rated Current	104 Amp at 415 V
Dg Set Model	TPDG75
Engine Model	697TC51
Brake Horsepower	109 BHP
No Of Cylinder	6
Weight	1570 Kg

Control Panel: DeepSea

DEEPSEA make(made in UK)controller fitted in a panel made of 1.6mm powder coated CRCA sheet with all necessary electrical equipment's fitted in it like MCCB, Current transformers, Fuse, Cables, Conductors etc. The DEEPSEA controller are approved by TATA MOTORS LIMITEDand all the parameters are preset as per the guidelines. The DEEPSEA controller is a Micro-processor based Integrated DG set Controller with built-in Remote START / STOP facility mounted in the facial of the control panel with a large LCD display panel with the continuous scrolling features. The following Protection / Control / Display features are provided for the DG set.

- State-of-the-art Microprocessor based fully configurable technology
- High performance graphical LCD and prominent display showing:
- • VAF (Voltage, Ampere, Frequency)
- • RPM
- • Run Hours
- • Low Lube Oil Pressure
- • Diesel Level
- • Overload
- • Emergency Stop
- • Fail to start with reason
- • Battery Voltage etc.



- **S**tandard built-in microprocessor-based controller with in built AMF Module with Fault finding chart inside DG Panel to diagnose and troubleshoot the error immediately. The errors are summed up into 20 icons which gets displayed on LCD screen.

- **B**uilt with additional safeties like Over Voltage, Under Voltage, Over frequency, Under frequency, Over excitation, Low battery Voltage, Low Lube Oil pressure, Over speed etc. These sets are designed to provide pre-warning to protect machine undergoing fault condition and thus avoid further deterioration on a long run and safeguard the sensitive loads.

- Fault Finding Chart provided with DG panel to diagnose and troubleshoot the error immediately.The errors are summed up into 20 icons which gets displayed on LCD screen.

- **I**nbuilt Offline Battery Charger inside Standard Control Panel which keeps the battery charged and ready to crank even if the dg set is not

operational.

- **H**ighest Block Loading Capability across the range in the Industry.

- **C**anopies designed to maintain air flow and ambient temperatures. Testing done in high temperature zones at full load and proved to be the best of long running hours.

- **H**igh fuel efficiency even at part loads, fuel consumption figures provided even for 25% load in the specification sheets for the entire range.

- **S**ets are most compact with single bearing alternator and built-in spring pads between engine / alternator and the base frame and have inbuilt Silencer inside the Acoustic Enclosure.

- **S**pecial coated doors foam to prevent oil and diesel absorption and preventing fire to escalate

- **D**oor lock lever and key made of brass for ZERO rusting compared to Mild steel and Hinge pin made of SS to support HIGH QUALITY CASTING.

- PVC Glands inside panel instead of Rubber Gurmut to prevent current passing into body.

- **F**unnel type Diesel input point comfortably placed in open space for easy fillinG.

- **R**ain Guard placed on all doors to prevent rain water entering inside canopy and keeping gensetsafe for longer period

Other Essentials:

- Engines are tested as per IS 10000 standards
- Superior Quality alternators are used confirming to IS13364, IS4722 & BS5000 standards
- Technologically advanced control panels with deep sea/ Procom controller
- Heavy, Robust and sound efficient DG gets confirming to CPCB-II norms & rule 95 of environment protection of GSR no of 771 (E) & GSR 232 (E)

How to Calculate Load:

- Put on only those equipments which you want to run on the Powerlux Silent Generator.
- Go near the distribution box where you'll find four colored cables; Red, Yellow, Blue & Black.

- Put the clamp meter around the Red, Yellow & Blue cable one by one and note down the ampere rating. Now add the numbers in case of single phase requirement or pick the highest in case of three phase requirement.
- Select your kVA from the above given ampere chart and see under which rating your requirement falls.

Note:

- After putting the clamp meter around the cable; turn off and on the heavy machines/equipments for better calculation. Also always select a rating 20% higher to your load for long term usage.
- All of the above silent genset range is made to perform at 1500 RPM
- Rated current output is at 100% load. 0.8 power factor
- Weight mentioned is approximate
- Product innovation is a continuous process; hence data given is subject to change without any prior notice.
- Detailed technical specification sheet separately available for each rating in soft copy

82.5 kVA TATA Silent Diesel Generator, 3 Phase

Power (kVA)	82.5 kVA
Genset Brand	Powerlux
Engine Make	TATA
Phase	3 Phase
Cooling System	Liquid
Fuel type	Diesel
Frequency	50 Hz
Dimension	3200 x 1250 x 1500 mm
Fuel Tank Capacity	205 L
Rated Current	114 Amp at 415 V
Dg Set Model	TPDG82.5
Weight	1620 Kg
Engine Model	697TC51
Brake Horsepower	109 BHP
No Of Cylinder	6

Control Panel: DeepSea

DEEPSEA make(made in UK)controller fitted in a panel made of 1.6mm powder coated CRCA sheet with all necessary electrical equipment's fitted in it like MCCB, Current transformers, Fuse, Cables, Conductors etc. The DEEPSEA controller are approved by TATA MOTORS LIMITEDand all the parameters are preset as per the guidelines. The DEEPSEA controller is a Micro-processor based Integrated DG set Controller with built-in Remote START / STOP facility mounted in the facial of the control panel with a large LCD display panel with the continuous scrolling features. The following Protection / Control / Display features are provided for the DG set.

- State-of-the-art Microprocessor based fully configurable technology
- High performance graphical LCD and prominent display showing:
- • VAF (Voltage, Ampere, Frequency)
- • RPM
- • Run Hours
- • Low Lube Oil Pressure
- • Diesel Level
- • Overload
- • Emergency Stop
- • Fail to start with reason
- • Battery Voltage etc.



- **S**tandard built-in microprocessor-based controller with in built AMF Module with Fault finding chart inside DG Panel to diagnose and troubleshoot the error immediately. The errors are summed up into 20 icons which gets displayed on LCD screen.

- **B**uilt with additional safeties like Over Voltage, Under Voltage, Over frequency, Under frequency, Over excitation, Low battery Voltage, Low Lube Oil pressure, Over speed etc. These sets are designed to provide pre-warning to protect machine undergoing fault condition and thus avoid further deterioration on a long run and safeguard the sensitive loads.

- Fault Finding Chart provided with DG panel to diagnose and troubleshoot the error immediately. The errors are summed up into 20 icons which gets displayed on LCD screen.

- **I**nbuilt Offline Battery Charger inside Standard Control Panel which

keeps the battery charged and ready to crank even if the dg set is not operational.

- **H**ighest Block Loading Capability across the range in the Industry.

- **C**anopies designed to maintain air flow and ambient temperatures. Testing done in high temperature zones at full load and proved to be the best of long running hours.

- **H**igh fuel efficiency even at part loads, fuel consumption figures provided even for 25% load in the specification sheets for the entire range.

- **S**ets are most compact with single bearing alternator and built-in spring pads between engine / alternator and the base frame and have inbuilt Silencer inside the Acoustic Enclosure.

- **S**pecial coated doors foam to prevent oil and diesel absorption and preventing fire to escalate

- **D**oor lock lever and key made of brass for ZERO rusting compared to Mild steel and Hinge pin made of SS to support HIGH QUALITY CASTING.

- PVC Glands inside panel instead of Rubber Gurmut to prevent current passing into body.

- **F**unnel type Diesel input point comfortably placed in open space for easy fillinG.

- **R**ain Guard placed on all doors to prevent rain water entering inside canopy and keeping gensetsafe for longer period

Other Essentials:

- Engines are tested as per IS 10000 standards
- Superior Quality alternators are used confirming to IS13364, IS4722 & BS5000 standards
- Technologically advanced control panels with deep sea/ Procom controller
- Heavy, Robust and sound efficient DG gets confirming to CPCB-II norms & rule 95 of environment protection of GSR no of 771 (E) & GSR 232 (E)

How to Calculate Load:

- Put on only those equipments which you want to run on the Powerlux Silent Generator.

- Go near the distribution box where you'll find four colored cables; Red, Yellow, Blue & Black.
- Put the clamp meter around the Red, Yellow & Blue cable one by one and note down the ampere rating. Now add the numbers in case of single phase requirement or pick the highest in case of three phase requirement.
- Select your kVA from the above given ampere chart and see under which rating your requirement falls.

Note:

- After putting the clamp meter around the cable; turn off and on the heavy machines/equipments for better calculation. Also always select a rating 20% higher to your load for long term usage.
- All of the above silent genset range is made to perform at 1500 RPM
- Rated current output is at 100% load. 0.8 power factor
- Weight mentioned is approximate
- Product innovation is a continuous process; hence data given is subject to change without any prior notice.
- Detailed technical specification sheet separately available for each rating in soft copy

100 KVA TATA Silent Diesel Generator

Power (kVA)	100 kVA
Genset Brand	Powerlux
Engine Make	TATA
Phase	3 Phase
Cooling System	Liquid
Noise Level	Silent or Soundproof
Fuel type	Diesel
Frequency	50 Hz
Dimension	3700 x 1200 x 1600 mm (L x B x H)
Fuel Tank Capacity	205 L
Rated Current	139 Amp
Dg Set Model	TPDG100
Weight	1710 Kg
Engine Model	697TC52

Brake Horsepower	125 BHP
No Of Cylinder	6
Aspiration	TCIC
Power kW	80 kW

Control Panel:DeepSea

DEEPSEA make(made in UK)controller fitted in a panel made of 1.6mm powder coated CRCA sheet with all necessary electrical equipment's fitted in it like MCCB, Current transformers, Fuse, Cables, Conductors etc. The DEEPSEA controller are approved by TATA MOTORS LIMITEDand all the parameters are preset as per the guidelines. The DEEPSEA controller is a Micro-processor based Integrated DG set Controller with built-in Remote START / STOP facility mounted in the facial of the control panel with a large LCD display panel with the continuous scrolling features. The following Protection / Control / Display features are provided for the DG set.

- State-of-the-art Microprocessor based fully configurable technology
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- • RPM
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- • Low Lube Oil Pressure
- • Diesel Level
- • Overload
- • Emergency Stop
- • Fail to start with reason
- • Battery Voltage etc.



- **S**tandard built-in microprocessor-based controller with in built AMF Module with Fault finding chart inside DG Panel to diagnose and troubleshoot the error immediately. The errors are summed up into 20 icons which gets displayed on LCD screen.

- **B**uilt with additional safeties like Over Voltage, Under Voltage, Over frequency, Under frequency, Over excitation, Low battery Voltage, Low Lube Oil pressure, Over speed etc. These sets are designed to provide pre-warning to protect machine undergoing fault condition and thus avoid further

deterioration on a long run and safeguard the sensitive loads.

- Fault Finding Chart provided with DG panel to diagnose and troubleshoot the error immediately. The errors are summed up into 20 icons which gets displayed on LCD screen.

- **I**nbuilt Offline Battery Charger inside Standard Control Panel which keeps the battery charged and ready to crank even if the dg set is not operational.

- **H**ighest Block Loading Capability across the range in the Industry.

- **C**anopies designed to maintain air flow and ambient temperatures. Testing done in high temperature zones at full load and proved to be the best of long running hours.

- **H**igh fuel efficiency even at part loads, fuel consumption figures provided even for 25% load in the specification sheets for the entire range.

- **S**ets are most compact with single bearing alternator and built-in spring pads between engine / alternator and the base frame and have inbuilt Silencer inside the Acoustic Enclosure.

- **S**pecial coated doors foam to prevent oil and diesel absorption and preventing fire to escalate

- **D**oor lock lever and key made of brass for ZERO rusting compared to Mild steel and Hinge pin made of SS to support HIGH QUALITY CASTING.

- PVC Glands inside panel instead of Rubber Gurmut to prevent current passing into body.

- **F**unnel type Diesel input point comfortably placed in open space for easy fillinG.

- **R**ain Guard placed on all doors to prevent rain water entering inside canopy and keeping gensetsafe for longer period

Other Essentials:

- Engines are tested as per IS 10000 standards
- Superior Quality alternators are used confirming to IS13364, IS4722 & BS5000 standards
- Technologically advanced control panels with deep sea/ Procom controller
- Heavy, Robust and sound efficient DG gets confirming to CPCB-II norms & rule 95 of environment protection of GSR no of 771 (E) & GSR 232 (E)

How to Calculate Load:

- Put on only those equipments which you want to run on the Powerlux Silent Generator.
- Go near the distribution box where you'll find four colored cables; Red, Yellow, Blue & Black.
- Put the clamp meter around the Red, Yellow & Blue cable one by one and note down the ampere rating. Now add the numbers in case of single phase requirement or pick the highest in case of three phase requirement.
- Select your kVA from the above given ampere chart and see under which rating your requirement falls.

Note:

- After putting the clamp meter around the cable; turn off and on the heavy machines/equipments for better calculation. Also always select a rating 20% higher to your load for long term usage.
- All of the above silent genset range is made to perform at 1500 RPM
- Rated current output is at 100% load. 0.8 power factor
- Weight mentioned is approximate
- Product innovation is a continuous process; hence data given is subject to change without any prior notice.
- Detailed technical specification sheet separately available for each rating in soft copy

125 kVA TATA Silent Diesel Generator

Power (kVA)	125 kVA
Genset Brand	Powerlux
Engine Make	TATA
Phase	3-Phase
Material	MS
Noise Level	Silent or Soundproof
Cooling System	Water Cooling
Fuel Tank Capacity	205 L
Voltage	415 V
Aluminium Cable	150 Sq mm
Brake Horsepower	154 BHP

DG Model	TPDG100
Emission	CPCB II

Control Panel: DeepSea

DEEPSEA make(made in UK)controller fitted in a panel made of 1.6mm powder coated CRCA sheet with all necessary electrical equipment's fitted in it like MCCB, Current transformers, Fuse, Cables, Conductors etc. The DEEPSEA controller are approved by TATA MOTORS LIMITEDand all the parameters are preset as per the guidelines. The DEEPSEA controller is a Micro-processor based Integrated DG set Controller with built-in Remote START / STOP facility mounted in the facial of the control panel with a large LCD display panel with the continuous scrolling features. The following Protection / Control / Display features are provided for the DG set.

- State-of-the-art Microprocessor based fully configurable technology
- High performance graphical LCD and prominent display showing:
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- • Diesel Level
- • Overload
- • Emergency Stop
- • Fail to start with reason
- • Battery Voltage etc.



- **S**tandard built-in microprocessor-based controller with in built AMF Module with Fault finding chart inside DG Panel to diagnose and troubleshoot the error immediately. The errors are summed up into 20 icons which gets displayed on LCD screen.

- **B**uilt with additional safeties like Over Voltage, Under Voltage, Over frequency, Under frequency, Over excitation, Low battery Voltage, Low Lube Oil pressure, Over speed etc. These sets are designed to provide pre-warning to protect machine undergoing fault condition and thus avoid further deterioration on a long run and safeguard the sensitive loads.

- Fault Finding Chart provided with DG panel to diagnose and

troubleshoot the error immediately. The errors are summed up into 20 icons which gets displayed on LCD screen.

- **I**nbuilt Offline Battery Charger inside Standard Control Panel which keeps the battery charged and ready to crank even if the dg set is not operational.

- **H**ighest Block Loading Capability across the range in the Industry.

- **C**anopies designed to maintain air flow and ambient temperatures. Testing done in high temperature zones at full load and proved to be the best of long running hours.

- **H**igh fuel efficiency even at part loads, fuel consumption figures provided even for 25% load in the specification sheets for the entire range.

- **S**ets are most compact with single bearing alternator and built-in spring pads between engine / alternator and the base frame and have inbuilt Silencer inside the Acoustic Enclosure.

- **S**pecial coated doors foam to prevent oil and diesel absorption and preventing fire to escalate

- **D**oor lock lever and key made of brass for ZERO rusting compared to Mild steel and Hinge pin made of SS to support HIGH QUALITY CASTING.

- PVC Glands inside panel instead of Rubber Gurmut to prevent current passing into body.

- **F**unnel type Diesel input point comfortably placed in open space for easy fillinG.

- **R**ain Guard placed on all doors to prevent rain water entering inside canopy and keeping gensetsafe for longer period

Other Essentials:

- Engines are tested as per IS 10000 standards
- Superior Quality alternators are used confirming to IS13364, IS4722 & BS5000 standards
- Technologically advanced control panels with deep sea/ Procom controller
- Heavy, Robust and sound efficient DG gets confirming to CPCB-II norms & rule 95 of environment protection of GSR no of 771 (E) & GSR 232 (E)

How to Calculate Load:

- Put on only those equipments which you want to run on the Powerlux Silent Generator.
- Go near the distribution box where you'll find four colored cables; Red, Yellow, Blue & Black.
- Put the clamp meter around the Red, Yellow & Blue cable one by one and note down the ampere rating. Now add the numbers in case of single phase requirement or pick the highest in case of three phase requirement.
- Select your kVA from the above given ampere chart and see under which rating your requirement falls.

Note:

- After putting the clamp meter around the cable; turn off and on the heavy machines/equipments for better calculation. Also always select a rating 20% higher to your load for long term usage.
- All of the above silent genset range is made to perform at 1500 RPM
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Refrence:-

1) https://www.powerlux.in/tata-silent-diesel-generators.html
2) https://www.powerluxenergy.com/about-us/
3) https://www.modernhiring.com/overview/