

# YOUR POWER TO SUCCESS

**BEST FUEL ECONOMY**  
**BEST COST OF OWNERSHIP**

**BEST IN RELIABILITY**  
**BEST IN CLASS SERVICE**



\* Terms and conditions apply



**EICHER ENGINES**  
 AIR COOLED

**TMTL ENGINES**  
 WATER COOLED

#IndiaKaEngine

You can rely on us...



# FEATURES & BENEFITS

## ENGINE

Cutting Edge Technology	Best in Class Fuel Efficiency Lowest Maintenance Longest Oil Change Period Longest Overhauling Period Most Economical Genset
A 1 Governing	Quality of Power Lowest Flickering and Fluctuation
High Moment of Inertia and Torque	Best in Class Block Loading Capability Better Performance at Varying Loads
Individual Blowers (Air Cooled Range)	Even cooling of all the cylinders Better efficiency
Turbo Charger with Inter Cooler (Water Cooled Range)	Better Engine Efficiency
Most Reliable Engines	Prime Power Rating available across range Most Powerful Engines in their Class

## ACOUSTIC ENCLOSURE

CRCA Sheet	Longer Life Thickest in its class
40 mm PU Foam (5 to 60 kVA)	Low noise and vibration level Super Silent Options available
Silencer Inside the Canopy	Better Aesthetics Longer life of Silencer
Compact Size	Saves Space Suitable for roof top installation
Large Doors on Both Sides Drain Provided for Lube Oil and Fuel Tank Unitary Front and Back Panel Canopy with Internal Bolting Stainless Steel Hinges with SS Studs SS Slam Locks with Barrel & Padlock arrangement	Ease of Maintenance Higher Degree of Safety
Dual Fuel Lock S-bend Fuel Pipe Stainless Steel Fuel Strainer	Pilferage Proof
State of Art Powder Coating Plant	Long Life Weather Protection

## BEST IN CLASS SERVICE

Single Point of Contact Round the Clock Assistance Pan India Service Network Highly Qualified & Trained Service Team Post Service Feedback Mechanism	Delighted Customer
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### WARRANTY TERMS

Warranty period covers 2 Years or 5000 Hours run\* (whichever is earlier)  
Warranty on 5C covers 5 Years or 5000 Hours run\* (whichever is earlier)  
\* Terms and conditions apply

### PRIME POWER (PRP)

Applicable for supplying power to varying electrical load for unlimited hours.  
Prime Power (PRP) is in accordance with ISO 8528.  
10% overload capability is available in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

### TMTL GENSET CONTROL UNIT

Protection for Over / Under Voltage / Frequency / Speed, Over load, Canopy FAN fault, #Load imbalance, Low Lube oil pressure, High cylinder / water temperature, Low Fuel level, Radiator water low, Charging alternator / V-Belt failure etc. Service due prompt - Control unit will display the Service due alert based on running hours





## Controller: DSE4522 MKI

### KEY FEATURES OF DSE 4522 CONTROLLER

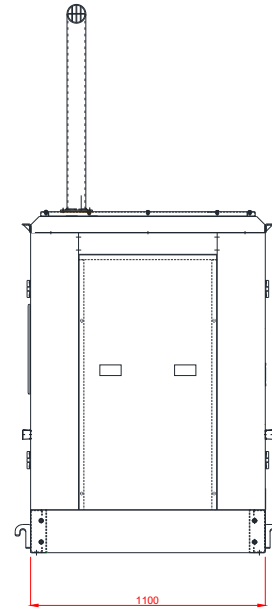
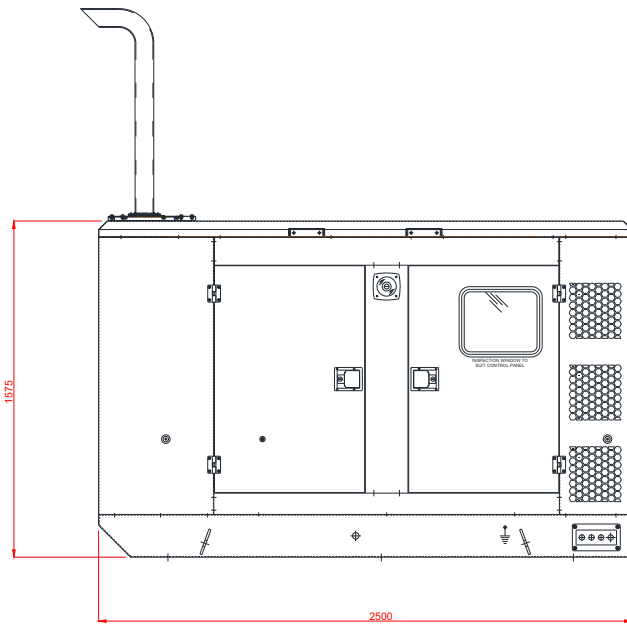
- LCD display
- True RMS Voltage
- Current and Power monitoring
- USB Communications
- Engine parameter monitoring.
- Fully configurable inputs for use as alarms or a range of different functions.
- Engine ECU interface to electronic engines
- The DSE smart PC Software allows
- Alteration of selected operational sequences,
- Timers, alarms and operational sequences.
- **Operating Temperature:** -30 °C +70 °C (-22 °F +158 °F)
- **Operating voltage:** 8 V to 32 V DC
- **COMMUNICATION PORTS :**  
USB Port: Type B USB 2.0 For connection to PC
- Configurable digital inputs/output
- Generator running hours counter
- Three phase sensing
- Generator Power Monitoring like, Kilo watts / KV/Amp / Ar / Power factor
- Generator Protections like, Over load, Over voltage , Low Voltage, Single phasing
- Engine Protection like, Low RPM, High RPM, Low Lube oil , High Temperature
- Event Log
- Generator monitoring like, Battery Voltage, Engine run time scheduler ,
- Maintenance Alarm
- Automatic transfers between Generator and utility ( Mains ) transfer facility is available
- Remote Start / stop facility
- IP42 (front of module when installed into the control panel WITHOUT being sealed to the panel)
- IP65 (front of module when installed into the control panel with the optional

# TECHNICAL SPECIFICATIONS

## Technical Specifications - 100 KVA

Genset Rating	kVA	100
Genset Model		PECH 100 TP
Duty	Prime / Standby	Prime
Engine manufacturer	-	TAFE Motors and Tractors Limited
Engine Brand		TMTL Engines
Engine model	-	449W0-EG100
Number of cylinders	nos.	4
Aspiration	-	Turbo Charged Inter-cooled
Engine power (gross)	BHP	128.3
Rated speed & frequency	RPM /Hz	1500/ 50 Hz
Stroke	mm	108
Bore	mm	134
Displacement	cc	4910
Compression ratio	-	17:01
Reference standard	-	Engine: As per ISO 3046-1, Genset: As per ISO 8528
Type of governer	-	Electronic/Isochronous
Class of Governing	-	G3
Air cleaner	-	Dry
Type of cooling	-	Water Cooled
Fuel Tank Capacity	L	250
Lube oil Sump capacity (with filters)	L	18
Phase	-	3 Phase 4 wire
Voltage	VAC	415
Voltage Regulation	%ge of Rated voltage	+/- 1%
Power Factor	Lag	0.8
Power Alternator Type	-	Brushless with AVR, Single Bearing, Bell Housing: SAE 3/10
Insulation	-	Class-H
Make	-	Stamford / Leroy Somer / CG or Meccalte
Starting System	-	Electric
Battery	Volts, Ah	12 Volts, 120 Ah
Silencer Location & Type		Internal / Residential
Acoustic Insulation Type	-	PU FR Retardant
Acoustic Insulation Thickness	mm	50
DG Set Dimensions ( L X B X H)	mm	3300 X 1300 X 1700
Weight of DG Set (Approx)+	kg	2020

# Dimensions and Weight



**Overall Size (L x W x H): 2500 X 1100 X 1575 (mm)**

**Weight (Dry, Max):**

**NOTE:** Drawing provided is for reference only and should not be used for planning installation. Please contact the Company or latest updated details. All the data is as per respective manufacturers' specification. PERFECT reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever.

**Disclaimer:** Due to continues product improvements, specifications are subject to change without prior notice.



## Perfect House Pvt. Ltd.

### CORPORATE OFFICE:

2nd Floor, 99C Kavya Aura, Next to Rosewood Hotel, Tardeo, Mumbai – 400034

### FACTORIES:

Plot no. M-7, Additional MIDC, Satara -415004

Plot no. J-2/6, Additional MIDC, Satara -415004

Plot no. J-2/5, Additional MIDC, Satara -415004

### OFFICE NUMBER:

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