



**COOPER CORPORATION PVT LTD**  
**PROVISIONAL PRODUCT TECHNICAL SPECIFICATIONS**  
**PRODUCT : 60KVA VECV 4Cyl CRDI Genset-CPCB-IV+**

Document no:  
Rev no:1  
ECA:  
Date of Release:14-09-2023  
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| Title        | Description                      | Unit        | DETAILS                                    |
|--------------|----------------------------------|-------------|--------------------------------------------|
| Basic Genset | Genset Model                     | —           | CDZ100603D41                               |
|              | Genset Make                      | —           | Cooper                                     |
|              | Genset Rating at NTP             | kVA         | 60                                         |
|              | Voltage                          | Volt        | 415                                        |
|              | Phase                            | -           | 3-Phase                                    |
|              | Power Factor                     | —           | 0.8                                        |
|              | Current (1-Ph/3-Ph)              | Amps.       | 83.5                                       |
|              | <u>LAT</u>                       | °C          | >45                                        |
| Basic Engine | Engine Model                     | —           | E483TCIC                                   |
|              | Engine Make                      | —           | VECV                                       |
|              | No. of cylinder                  | Nos.        | 4                                          |
|              | Bore                             | mm          | 100                                        |
|              | Stroke                           |             | 105                                        |
|              | Swept Volume                     | Lit         | 3.3                                        |
|              | Rating at NTP                    | kW          | 55                                         |
|              | Engine Speed                     | RPM         | 1500                                       |
|              | Aspiration                       | NA/TC/TC-IC | TCIC                                       |
|              | Compression Ratio                | —           | 17:1                                       |
|              | <u>Governing Class as per IS</u> | —           | G2-Class                                   |
|              |                                  |             |                                            |
| Alternator   | Alternator Make                  | —           | Meccalte                                   |
|              | Alternator model                 | -           | ECP32 2M4C                                 |
|              | Alternator rating                | kVA         | 62.5                                       |
|              | Class of insulation              | —           | H                                          |
|              | Frequency                        | Hz          | 50                                         |
|              | Phase                            | —           | 3-Phase                                    |
|              | Coupling details                 | —           | Fly wheel Housing SAE-3<br>Flywheel SAE-10 |

|         |                 |            |                |                |                 |
|---------|-----------------|------------|----------------|----------------|-----------------|
| 00      | Initial release | 14/09/2023 | Harinadh ketha | Harinadh ketha | Vasundhara Arde |
| REV No. | Change Details  | Date       | Prepared By    | Checked By     | Approved By     |



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|----------------------|-------------------------------|------|----------------------|---------------------|
| Genset Control Panel | Genset Controller Make        |      | DIEF                 |                     |
|                      | Control Panel Type            |      | ASAS/AMF             |                     |
|                      | Starting System               |      | 12V DC               |                     |
|                      | <b>Sensors</b>                |      | <b>Display</b>       | <b>Availability</b> |
|                      | Coolant Temperature           |      | Yes                  | Yes                 |
|                      | Oil pressure                  |      | Yes                  | Yes                 |
|                      | Oil Temperature               |      | NA                   | NA                  |
|                      | Magnetic Pick up              |      | NA                   | NA                  |
|                      | Coolant Level sensor          |      | NA                   | NA                  |
|                      | Fuel level                    |      | Yes                  | Yes                 |
|                      | <b>Safeties</b>               |      | <b>Warning Alarm</b> | <b>Shut Down</b>    |
|                      | Over Speed                    |      | Yes                  | Yes                 |
|                      | Coolant Temperature           |      | Yes                  | Yes                 |
|                      | Oil pressure                  |      | Yes                  | Yes                 |
|                      | Coolant Level sensor          |      | NA                   | NA                  |
|                      | Fuel level                    |      | Yes                  | Yes                 |
| Fuel System          | Fuel System                   |      | Delphi CRDI          |                     |
|                      | Type Of Fuel                  |      | Diesel               |                     |
|                      | Tolerance on Fuel Consumption | %    | +5                   |                     |
|                      | Genset Fuel Tank Capacity     | Lit  | 200                  |                     |
| Oil System           | Type of Oil                   |      | 15 W 40 CI4+         |                     |
|                      | Oil capacity                  | Lit. | Min.                 | -                   |
|                      |                               |      | Max.                 | 12.5                |
|                      | Oil Consumption               | %    | < 0.1% of BSFC       |                     |

|         |                 |            |                |                |                 |
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|                                                                                   |                                                                                                                                                                             |                                                                                              |
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|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|

| Title            | Description             | Unit       | DETAILS                      |                    |
|------------------|-------------------------|------------|------------------------------|--------------------|
| Cooling System   | Type of cooling         |            | Liquid                       |                    |
|                  | Type of Coolant         |            | Ethylene glycol: Water-50:50 |                    |
|                  | Coolant Capacity        | Lit        | 14                           |                    |
| Battery capacity | Voltage                 | V          | 12                           |                    |
|                  | Capacity                | AH         | 88                           |                    |
| <u>Noise</u>     | Genset                  | <u>dBA</u> | < 73                         |                    |
| Dry Weight       | Engine                  | Kg         | xxxx                         |                    |
|                  | Genset                  |            | xxxx                         |                    |
| ENGINE EMISSION  | Engine                  | -          | CPCB-IV+                     |                    |
| Size             | Engine with Radiator    | mm         | L x W x H                    | -                  |
|                  | Genset with Exh.duct    |            |                              | 2750 x 1100 x 1890 |
|                  | Genset without Exh.duct |            |                              | 2750 x 1100 x 1423 |

**Note:-**

\* Oil grade will be changed as per ambient temperature.

NA: Not Applicable.

Specifications are subject to change without notice due to continuous product development and improvement.

|         |                 |            |                |                |                 |
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