



COOPER CORPORATION PVT LTD
PROVISIONAL PRODUCT TECHNICAL SPECIFICATIONS
PRODUCT : 100kVA 4Cyl.Mechanical OS Genset-CPCB-IV+

Document no:
Rev no:1
ECA:
Date of Release:02-10-2023
Page 1 of 3

Title	Description	Unit	DETAILS
Basic Genset	Genset Model	—	CDT101003D41 CDQ101003D41
	Genset Make	—	Cooper
	Genset Rating at NTP	kVA	100
	Voltage	Volt	415
	Phase	-	3-Phase
	Power Factor	—	0.8
	Current (1-Ph/3-Ph)	Amps.	139.12
	<u>LAT</u>	<u>°C</u>	>45
Basic Engine	Engine Model	—	4B9D1C113IW
	Engine Make	—	Cooper
	No. of cylinder	Nos.	4
	Bore	mm	107
	Stroke		126
	Swept Volume	Lit	4.5
	Rating at NTP	kW	100
	Engine Speed	RPM	1500
	Aspiration	NA/TC/TC-IC	TCIC
	Compression Ratio	—	17.5:1
	<u>Governing Class as per IS8528</u>	—	G2-Class
Alternator	Alternator Make	—	Leroy-Somer
	Alternator model	-	LSAP 44.3C
	Alternator rating	kVA	100
	Class of insulation	—	H
	Frequency	Hz	50
	Phase	—	3-Phase
	Coupling details	—	Fly wheel Housing SAE-3 Flywheel SAE-11.5

00	Initial release	14/09/2023	Harinadh ketha	Harinadh ketha	Vasundhara Arde
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 Page 2 of 3

Title	Description	Unit	DETAILS	
Genset Control Panel	Genset Controller Make		Deepsea	
	Control Panel Type		ASAS/AMF	
	Starting System		24V DC	
	Sensors		Display	Availability
	Coolant Temperature		Yes	Yes
	Oil pressure		Yes	Yes
	Oil Temperature		Yes	Yes
	Magnetic Pick up		NA	NA
	Coolant Level sensor		NA	NA
	Fuel level		Yes	Yes
	Safeties		Warning Alarm	Shut Down
	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		Motorpal-Mechanical	
	Type Of Fuel		Diesel	
	Tolerance on Fuel Consumption	%	+5	
	Genset Fuel Tank Capacity	Lit	300	
Oil System	Type of Oil		15 W 40 CI4+	
	Oil capacity	Lit.	Min.	-
			Max.	8
	Oil Consumption	%	< 0.08% of BSFC	

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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	17	
Battery capacity	Voltage	V	24 V (i.e. with 2 Batteries of 12V in Series)	
	Capacity	AH	65 x 2	
<u>Noise</u>	Genset	<u>dBA</u>	< 73	
Dry Weight	Engine	Kg	-	
	Genset		~2250	
ENGINE EMISSION	Engine	-	CPCB-IV+	
Size	Engine with Radiator	mm	L x W x H	-
	Genset with silencer			3374 X 1100 X 2950
	Genset without silencer			3374 X 1100 X 1568

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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