

# SPECIFICATION SHEET

ENGINE MODEL : **V2203-E2BG-CHN-1**

*Used for 18kVA generator*

ENGINE CODE NUMBER: **1G985-12000**

DIMENSION DRAWING NUMBER:

KUBOTA CORPORATION

ENGINE ENGINEERING DEPARTMENT

ITEMS	UNIT	SPECIFICATIONS
Engine Model		V2203-E2BG-CHN-1
发动机型号		
Engine Code Number		1G985-12000
发动机编号		
Type		Vertical, water-cooled, 4-cycle diesel engine
型式		直列, 水冷, 四冲程柴油机
Number of cylinder		4
气缸数		
Cylinder Bore	mm	87
缸径		
Stroke	mm	92.4
行程		
Combustion type		Spherical Type (E-TVCS)
燃烧室型式		球形, 非直喷
Total Displacement	L	2.197
排量		
Brake Horse Power (Stand-by) 备用功率	kW/rpm (PS/rpm)	24.2/1800 (32.9/1800) / 20.1/1500(27.3/1500)
Brake Horse Power (Continuous) 持续功率	kW/rpm (PS/rpm)	20.2 /1800 (27.5/1800) / 17.2/1500(23.4/1500)
Firing Order		1-3-4-2
气缸工作顺序		
Direction of Rotation		Counter-Clockwise (Viewed from Flywheel Side)
旋转方向		逆时针 (从飞轮侧看)
Injection Pump		Bosch Type
喷油泵		博世喷油泵
Fuel Injection Pressure	MPa (kgf/cm <sup>2</sup> )	13.73 (140)
喷油压力		
Fuel Injection Timing	deg.	17.0 Before T.D.C (p)
喷射正时		上止点前17度
Compression Ratio		23.0
压缩比		
Governor Type		All Speed Mechanical Governor
调速器		全程式机械调速器
Fuel Oil		Diesel Fuel No.2-D(ASTMD975)
燃油		柴油 No.2-D(ASTMD975)
Starting System		Starter (with glow plug)
起动系统		起动电机 (带预热塞)
Starter Output	V-kW	12 - 1.4
起动电机		

ITEMS	UNIT	SPECIFICATIONS
Alternator Output	V - A	12 - 40
发电机		
Cooling System		Pressurized Radiator, Forced Circulation with water pump
冷却系统		加压散热器, 强制循环水泵
Lubricating System		Forced Lubricating by Trochoid Pump
润滑系统		强制润滑式
Lubrication Oil		Class CF lubricating oil as per API classification is recommended
润滑油		推荐API CF级润滑油
Lub.Oil Capacity	L	9.7
润滑油容量		
Dimensions (L x W x H)	mm	703.4 × 548.3 × 633.3
尺寸 (长 x 宽 x 高)		
Emission Regulation		China Off Road Stage II
排放法规		中国 二阶段
Intake Resistance	kPa(mmAq)	≤ 1.96 (200)
进气阻力		
Back Pressure	kPa(mmHg)	≤ 7.07 (53)
排气背压		
Ho(Heat Rejection to coolant)	kcal/h	21,600
冷却水带走热量		
Combustion Air Requirements ( 25°C and 750mmHg)	m <sup>3</sup> /min	1.72
进气量 (25°C, 大气压750mmHg条件下)		
Exhaust Gas Volume ( 25°C and 750mmHg)	m <sup>3</sup> /min	5.07
排气量 (25°C, 大气压750mmHg条件下)		
Dry Weight	kg	Approx.180
干重		

※Lubrication Oil is not filled for engine delivery.

※交货时发动机内没有机油.

## ENGINE PARTS LIST V2203-E2BG-CHN-1 1G985-12000

PART NAME	PART NUMBER	Q'ty	DESCRIPTION
Crank Case	16665-0112△	1	
曲轴箱			
Oil Pan	15434-0161△	1	Depth 90mm
油底壳			
Gear Case,Assy	17182-0401△	1	Oil Filter Cartridge : Inlet Side
齿轮箱			机油滤清器: 进气侧
Water Pump Assy.	15521-7303△	1	
水泵总成			
Inlet Manifold	17114-1176△	1	Horizaontal Inlet (Closed Breather Type)
进气歧管			水平朝向 (闭式呼吸器)
Exhaust Manifold	1G896-1231△	1	Up Outlet
排气歧管			出口朝上
Head Cover Assy.	1G790-1450△	1	Closed Breather Type
气缸盖罩总成			闭式呼吸器
Flywheel	17158-2511△	1	SAE 7-1/2 (Short)
飞轮			
Flywheel Housing	17158-0461△	1	SAE 4 (Short)
飞轮壳			
-	-	-	-
Oil Filter Cartridge	16414-3243△	1	φ93xL85
机油滤清器			
Oil Gauge	1G622-3641△	1	Inlet side
机油尺			位于进气侧
Oil Gauge Guide	17456-3642△	1	Short oil gauge guide
机油尺导管			
Starter	17381-6301△	1	12V - 1.4kW
起动机			
Alternator	34070-7560△	1	12V - 40A
发电机			
Glow Plug	19077-6551△	4	Quick Heating Type (DC 11V,)
预热塞			快速预热式 (DC 11V)
Stop Solenoid	15471-6001△	1	
停车电磁阀			
Water Flange	19202-7291△	1	Rp1/2
出水法兰			
Thermostat	19434-7301△	1	71°C (Opening Temp. )
节温器			71°C (开启温度)
Thermostat cover	15321-7326△	1	Up Outlet
节温器盖			出口朝上
Fan Spacer	19818-7415△	1	12mm
风扇垫块			
Fan	17371-7411△	1	Φ380mm 6 blades, Pusher
风扇			φ380mm 6叶, 吐风

PART NAME	PART NUMBER	Q'ty	DESCRIPTION
Fan Pulley	15471-7425△	1	Φ104mm
风扇皮带轮			
Fan Drive Pulley	15192-7428△	1	Φ130mm
曲轴皮带轮			
Fan Belt	15469-9701△	1	41.5"
风扇皮带			
Oil Pressure Switch	15841-3901△	1	0.5kgf/cm2
机油压力开关			
Water Temp. Sensor	-	-	
水温开关			
Ship Loose parts / 随机附件			
Operator's Manual	1K312-8911△	1	
使用说明书			
Warranty Statement	1G511-8981△	1	
产品合格证			
Timer (Grow Lamp)	15694-6599△	1	
计时器 (预热指示灯)			
Coupler Assy.	19883-6583△	1	For Timer(Glow Lamp)
接插件总成			计时器 (预热指示灯) 用
Indicator Lamp	15403-6449△	1	
指示灯			
Terminal Assy	19268-6578△	1	For Indicator Lamp
端子总成			指示灯用
Terminal	19215-6375△	2	For Starter
端子			起动电机用
Muffler Gasket	17326-1223△	1	
排气管垫圈			
TIMER,KEY STOP	T0070-3141△	1	
停车延时器			
Coupler Assy.	16645-6583△	1	
接插件总成			
Sedimenter,Assy	1G311-4335△	1	
油水分离器总成			
ASSY FILTER,FUEL	1C011-4301△	1	
燃油滤清器总成			
SCREW,AIR BREEDER	15841-5136△	1	
放气螺栓			
PACKING	15601-9665△	1	
垫圈			
JOINT,T-PIPE	1G065-4236△	1	
T型接头			
VALVE,FUEL CHECK	1C010-4246△	1	
单向阀			
CLIP,PIPE	14971-4275△	8	
管夹			