

KSD490Q POWER UNIT

TECHNICAL DATASHEET

Production Tolerance : $\pm 5\%$

Stand-By (Maximum) Rating	Max.Torque	Fuel Consumption
42 kW (57 HP) / 3000 rpm	152,4 N.m	247 g/kW.h / 3000 rpm

Note : All datas are according to DIN6270B

MECHANICAL SYSTEM

Manufacturer	Kansas Diesel / China
Engine Model	KSD490Q
Type	4 cycle , Diesel , Naturally aspirated
Combustion Type	Direct Injection
Firing Order	1-3-4-2
Cylinder Number	Inline 4 cyl
Bore x Stroke	90 x 100 mm
Displacement	2,54 lt
Compression Ratio	18
Dry Weight	230 kg
Dimensions LxWxH	738x664x780 mm

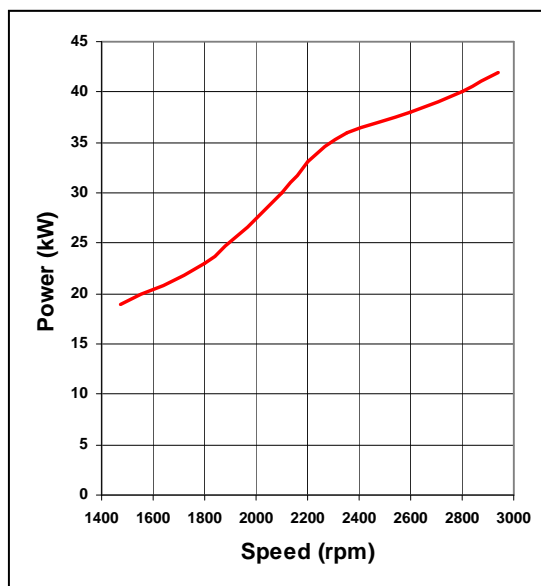
COOLING SYSTEM

Cooling Type	Water Cooled
Cooling Method	Forced Circulation
Water Capacity	8,5 lt without radiator
Water Flow rate	220 lt/min
Water Pump	Centrifugal type driven by belt

FUEL SYSTEM

Injection Pump	I or BQ type
Governor Type	Mechanical
Fuel Selenoid	Energized to Stop
Fuel Filter	Full flow, cartridge type
Fuel Delivery	Single Act-Piston type
Fuel	Diesel Fuel (EN590)

PERFORMANCE CURVE



KSD490Q POWER UNIT

LUBRICATION SYSTEM

Oil Pump Type	Rotor
Oil Filter	Full Flow cartridge
Oil Capacity	14 lt
Recomended Oil	CD/CE/CF 10W/40 grade semi-synthetic or synthetic
Oil Pressure	400 kPA (warm engine at 3000 rpm)

ELECTRICAL SYSTEM

Charging Alternator	14 V , 350 W
Starting Motor	12 V, 2,5 kW
Battery Voltage	12 V
Capacity (Recomended)	80 Ah

OPTIONS

(EWI)	Engine Wiring
(CPA)	Basic Start Panel
(CHE)	Coolant Heater
(ESI2)	Residential type Silencer
(BAT)	Battery , cables & rack
(BFR1)	Baseframe Std.c/w fuel tank
(BFR2)	Extended Baseframe c/w fuel tank
(NFP)	Conformity kit to NFPA-20 standards
(HEX)	Heat Exchanger Kit with pipeline
(CPL)	Coupling with its guard
(TBX)	Tool Kit

UNIT CONVERSION

HP = kW x 1,3596
Torque (N.m) = 9549,3 x P(kW) / N(1/min)
Torque (kg.m) = 716,2 x P(HP) / N(1/min)
1 Bar = 1,019726 kg/cm ² = 100 kPA
1 kW = 0,2388 kcal/s

IDEA

IDEA MAKİNA İMALAT SAN.VE TİC.LTD.ŞTİ.

İmes San.Sitesi B Blok 205.Sok. No:1
Y.Dudullu - Ümraniye /İstanbul - TURKEY

Tel : + 90 216 313 42 77

Fax : + 90 216 313 42 79

e-mail : info@ideamakina.com.tr