VP POWER SOLUTION

POWER WITHOUT LIMITS

Model: FH35D6

Powered by FAW





■ Generator Specification

Service	PRP ₍₁₎		ESP ₍₂₎	
Power (kVA)	32		35	
Power (kW)	25		28	
Rated speed (r.p.m)		1800		
Standard voltage (V) 220/127V				
Rated at power factor (cos phi) 0.8				





Hong Fu Co are compliant with ISO 9001 and CE standard, which include the following directives:

- 2006/42/EC Machinery safety.
- 2006/95/EC Low voltage
- EN 60204-1: 2006+A1: 2009, EN ISO 12100: 2010, EN ISO 13849-1: 2008, EN 12601 : 2010

(1) PRP (Prime Power):

According to ISO8528-1, prime power is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per year, between stated maintenance intervals. The permissible average power output during at 24 hours period shall not exceed 80% of the prime power. 10% overload available for governing purposes only.

(2) ESP (Standby Power):

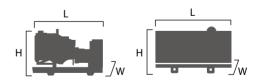
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. No overload capability is available.

Powers Voltage (V)	ES KVA	SP KW	PF KVA	RP KW	Standby Amps
480/277	35	28	31	25	42.1
440/254	35	28	31	25	45.9
380/220	35	28	31	25	53.2
220/127	35	28	31	25	91.9
208/120	35	28	31	25	97.2

Performance Da			
Model		FH35D6	
Engine brand	Engine brand		
Engine model		4DW92-42D	
Speed control type		Electronic	
Phase		3	
Control system		Digital	
Starter motor voltage		24V	
Frequency		60HZ	
Engine speed (RPM)		1800	
	110% stand power	8.6	
Fuel Consumption	100% primer power	7.6	
(L/H)	75% primer power	5.7	
(=)	50% primer power	3.8	

Standard reference Conditions

Note: Standard reference condition 25°C (77°F) air inlet temp, 100m(328ft) A.S.L 30% relative humidity. Fuel consumption dat with diesel fuel with specific gravity of 0.85 and conforming to BS 2869: 1998, Class A2



Dimension and Weight		
Open	Silent	
1650 mm	2200 mm	
750 mm	1000 mm	
1000 mm	1250 mm	
700 Kg	1000 Kg	
90	100	
	Open 1650 mm 750 mm 1000 mm 700 Kg	

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■ Engine Specification: 4DW92-42D

Basic technical data	
No. of cylinders Cylinder	4
Cylinder arrangement	In-line
Clycle	4 stroke
Induction system	Turbocharger
Compression ratio	18 : 1
Bore	90 mm
Stroke	100 mm
Displacement	2.5 L
Engine idle speed	950 - 1050 RPM
Approximate engine weight	260 Kg

Fuel system	
Injection system	BYC A
Governor type	Electronic
Maximum restriction at lift pump	13.6kPa
Maximum fuel inlet temperature	/
Total drain flow	
(constant for all loads)	30 litre/hour

Alternator Specification

CJ184F
VP Power. Cert. Stamford
3
0.8
4
l) Start-serie
12
H class
220
IP23
Self-excited
Single bearing
60Hz
A.V.R
31.25 KVA

Cooling system	
Coolant capacity-engine	3.7 L
Max coolant friction head to engine	35 kPa
Max water temp standby/prime power	110/104 °C
Air intake system	
Fan diameter	420 mm
Fan power consumption	1.2 Kw
Lubrication system	
Oil Consumption	0.04 L/h
Oil capacity including filter	8 L
Electrical system	
Cranking motor (Heavy duty,	
positive engagement	24V
Battery charging system,	
negative ground	40 ampere
Maximum allowable resistance	
of cranking circuit	0.002 ohm
Minimum recommended battery	
capacity-cold soak	312 CCA

General installation	
Gross engine power output	30 kw
Piston speed	6.0 m/s
Friction horsepower	11.9 kW
Engine water flow to engine	2.81 l/sec
Intake air flow	43.0 l/sec
Exhaust gas flow	78.5 l/sec
Exhaust gas temperature	326 °C
Radiated heat to ambient	TBD
Heat rejection to coolant	32 kW
Heat rejection to fuel	TBD
Heat rejection to fuel	IBD

VP POWER SOLUTION

- POWER WITHOUT LIMITS

Control Panel

DEEP SEA 6120



KEY FEATURES

- Large back-lit text display
- Multiple display languages
- Heated display option available
- DSENet® expansion compatible
- Data logging facility
- Fully configurable via PC usingUSB communication
- Front panel configuration
- Efficient power save mode
- 3 phase generator sensing
- 3 phase mains (utility) sensing(DSE6120 MKII only)
- Generator/load power monitoring(kW, kV A, kV Ar, pf) CAN instrumentation and alarms
- Accumulated power monitoring(kW h, kVA h, kVAr h)
 Start on low battery
- Generator/load current monitoringand protection
- Generator overload protection (kW)
- Breaker control via fascia buttons
- Fuel and start outputs, configurablewhen using CAN KEY BENEFITS
- 4 configurable DC outputs
- 4 configurable analogue/digital inputs
- Support for 0 to 10 V &
- 4 to 20 mA oil pressure sensors
- 6 configurable digital inputs
- Configurable staged loading outputs
- 3 engine maintenance alarms
- Engine speed protection
- Engine hours counter
- Engine pre-heat
- Engine run-time scheduler
- Engine idle control for starting & stopping
- Fuel pump control
- Real time clock
- Battery voltage monitoring

- Start on low battery voltage
- Configurable remote start input
- 1 alternative configuration
- Comprehensive warning, electrical trip or shutdown protection upon fault condition
- LCD and LED alarm indication
- Customisable information screens
- Configurable event log (100)
- Tier 4 ECO engine support including exhaust fluids & filters
- J1939-75 instrumentation output, configurable
- Enhanced alarm functionality
- Low load alarm

Automatically transfers betweenmains (utility)

- and generator(DSE6120 MKII only) Increased input and output expansion capability
- via DSENet®

User-friendly set-up and buttonlayout for ease of

• CAN, MPU and alternator speedsensing in one variant Multiple parameters are monitoredsimultaneously which are clearlydisplayed on a large back-lit

- textdisplay via multiple languages
- The module can be configured tosuit a wide range of applications
- - Uses DSE Configuration Suite PC Softwar for
- simplified configuration
- Licence-free PC software IP65 rating (with optional gasket)offers increased resistance to wateringress

The DSF6120 MKII Auto Start Control Module (Utility) Failure Control Module are suitable for a wide variety of single gen-set applications.

Monitoring engine speed, oil pressure, coolant temperature, frequency, voltage, current, power and fuel level, the modules give comprehensive engine and alternator protection. This is indicated on a large back-lit LCD text display via an array of warning, electrical trip and shutdown alarms in multiple langua-

Electronic J1939 (CAN) and non-electronic MPU and alternator sensing engine support for diesel, gas and petrol engines all in one variant

With a number of flexible inputs, outputs and protections, the modules can be easily adapted to suit a wide range of applications.

Through USB Communication both modules can be configured using the DSE Configuration Suite PC Software or through the module's front panel editor.

Using the DSE Configuration Suite PC Software the controller is easy to use and configure which allows alteration of operating parameters, sequences, timers and alarms.

SPECIFICATIONS

DC SUPPLY

CONTINUOUS VOLTAGE RATING 8 V to 35 V Continuous

MAXIMUM OPERATING CURRENT 100 mA at 12 V. 105 mA at 24 V

MAXIMUM STANDBY CURRENT 60 mA at 12 V. 55 mA at 24 V

MAXIMUM SLEEP CURRENT 40 mA at 12 V. 35 mA at 24 V

GENERATOR & MAINS (UTILITY)

VOLTAGE RANGE

15 V to 415 V AC (Ph to N) 26 V to 719 V AC (Ph to Ph)

FREQUENCY RANGE

3.5 Hz to 75 Hz

INPUTS

DIGITAL INPUTS A to F

Negative switching

ANALOGUE INPUT A

Configurable as: Negative switching digital input 0 V to 10 V 4 mA to 20 mA 0 O to 240 O

ANALOGUE INPUTS B TO D

Configurable as: Negative switching digital input 0Ω to 480Ω

OUTPUT A (FUEL)

10 A short term, 5 A continuous, at supply voltage

OUTPUT B (START)

10 A short term, 5 A continuous, at supply voltage

AUXILIARY OUTPUTS C, D, E & F 2 A DC at supply voltage

DIMENSIONS

OVERALL

216 mm x 158 mm x 43 mm 8.5" x 6.2" x 1.5"

PANEL CUT-OUT

184 mm x 137 mm 7.2" x 5.3"

MAXIMUM PANEL THICKNESS 8 mm

0.3"

STORAGE TEMPERATURE RANGE

-40 °C to +85 °C -40 °F to +185 °F

OPERATING TEMPERATURE RANGE

NON HEATED DISPLAY VARIANT -30°C to +70°C -22 °F to +158 °F

HEATED DISPLAY VARIANT

-40 °C to +70 °C -40 °F to +158 °F



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