

WGP-C50/S-6

CUMMINS Series

Features:

- Rotate speed governor: Electrical governor
- Excitation system: Self excited, SHUNT
- A.V.R model: AS480
- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- 24V sealed for life maintenance free battery
- Lockable battery isolator switch
- Powder coated canopy (Only for Soundproofed sets)
- 50°C radiator
- Oil pump on the engine
- Steel base frame with fork holes
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for daily running
- Drain points for fuel tank
- Operation Manual / Specifications



Dimensions and Weights

Model	L	W	H
WGP-C50-6	1850	650	1250
WGP-C50S-6	2250	1050	1380

Output Ratings

Genset Model	Prime Power	Standby Power
WGP-C50-6	45kVA/36kW	50kVA/40kW
WGP-C50S-6	45kVA/36kW	50kVA/40kW

Ratings at 0.8 power factor

Notes:

*Prime Power

Continuous duty operation, under variable load 24/24h-10% over load

**Standby Power

Standby duty, operation under variable load, without over load;

Standard Reference Conditions

Note: Standard reference conditions 25°C (77°F) Air Inlet Temp, 100m(328 ft) A.S.L. 30% relative humidity. Fuel consumption data at full load with diesel fuel with specific gravity of 0.85 and conforming to BS2869: 1998,

Ratings and Performance Data

Engine Model:	Cummins 4BT3.9-G2
Alternator Brand:	Stamford
Alternator Model:	PI 144H
Control System:	AMF
Circuit Breaker Type:	3 Pole MCCB
Frequency & Phase:	60Hz & 3PH
Engine Speed: RPM	1800
Fuel Tank Capacity: L	
WGP-C50-6	10 hrs
WGP-C50S-6	10 hrs
Fuel Consumption: l/hr (100% Load)	
- Prime Power	8.6
- Standby Power	9.5

Engine Model: 4BT3.9-G2

Engine Technical Data

No. of Cylinders / Alignment:	4 / In Line
Cycle:	4 Stroke
Bore / Stroke: mm	102/120
Induction:	Naturally
Cooling Method:	Water
Governing Type:	Electrical
Governing Class:	ISO 8528 G2
Compression Ratio:	16.5:1
Displacement: L	3.9
Moment of Inertia:kg.m ²	0.143
Engine Electrical System:	
- Voltage / Ground	24/Negative
- Battery Charger	40 Amp
Weight: kg - Dry	308
- Wet	324

Performance

Engine Speed: RPM	1800
Gross Engine Power: kWm	
- Prime	40
- Standby	44
HP	
- Prime	/
- Standby	/

Lubrication System

Oil Pressure @ Idle Speed kPa	207
@ Rated Speed kPa	345
Maximum Oil Temperature: °C	121
Total Oil Capacity: L	11
Oil Type:	API CH4/15W-40

Exhaust System

Silencer Type	Industrial
Silencer Quantity:	1
Silencer Noise Reduction Level:	15 - 20dBA
Maximum Allowable Back Pressure: mmhg	76
Exhaust Gas Flow: l/s	
- Prime	67.5
- Standby	71.1
Exhaust Gas Temperature: °C	
- Prime	380
- Standby	410

Cooling System

Cooling System Capacity: L	7.2
Maximum coolant Friction Head	28
External to Engine: kPa	
Maximum Static Head of Coolant Above Engine Crank Centerline m :	14
Standard Thermostat (Modulating) Range: °C	82-95
Minimum Pressure Cap: kPa	69
Maximum Top Tank Temperature for Standby / prime Power: °C	104/100

Designed to operate in ambient conditions up to 50°C (122°F)
Contact a representative for power ratings at specific site conditions.

Fuel System

Injection System Type: BYC A Stanadyne				
Recommended Fuel Type:				
Diesel Fuel No.2-D(ASTM D975)				
Fuel Consumption: l/hr				
Prime Load	110%	100%	75%	50%
WGP-C50-6	9.5	8.6	6.9	5.2
WGP-C50S-6	9.5	8.6	6.9	5.2

(Based on diesel fuel with a specific gravity of 0.85 and conforming to BS2869, Class A2)

Air Systems

Air Filter Type:	Dry type replaceable Element
Intake Air Flow: l/s	
- Prime	32.8
- Standby	32.9
Max. Air Intake Restriction: mmH2O	
-With Dirty Filter Element	508
-With Normal Duty and Clean Filter Element	254
-With Heavy Duty and Clean Filter Element	305

Alternator Model: PI 144H

Alternator Physical Data

Manufactured by:	Stamford
Model:	PI 144H
No. of Bearings:	Single
Insulation Class:	H
Winding Pitch Code:	2/3
Wires:	12
Ingress Protection Rating:	IP23
Excitation System:	Self excited,shunt
AVR Model:	AS480

Alternator Operating Data

Overspeed: rpm	2250rpm
Voltage Regulation: (Steady state)	±1.0%
Wave Form NEMA = TIF:	< 50
Wave Form IEC = THF:	< 2%
Air Flow: m3/s	0.1
Altitude: m	≤ 1000

Alternator Performance Data:	WGP-C50-6	WGP-C50S-6
Time constants/460V:Ms		
T'd	24	24
T''d	5	6
T'do	550	550
Ta	7	7
Short Circuit Capacity** %	1/Xd	1/Xd
Reactances: Per Unit		
Xd	1.57	1.57
X'd	0.14	0.4
X''d	0.11	0.11

Voltage Technical Data WGP-C50-6

Voltage	Prime kVA	Standby kVA
110/220	45	50
220/440	45	50
230/460	45	50
240/480	45	50

Voltage Technical Data WGP-C50S-6

Voltage	Prime kVA	Standby kVA
110/220	45	50
220/440	45	50
230/460	45	50
240/480	45	50

Genset Controller DSE4620



Features:

- Large back-lit icon LCD display.
- 3-phase generator sensing.
- 3-phase generator and mains (utility) sensing.
- 600 V ph-ph nominal system compatibility.
- Generator & load power monitoring (kW, kV A, kV Ar, pf).
- Generator overload protection (kW).
- Configurable inputs & outputs.
- Fuel & crank outputs.
- Magnetic pick-up speed sensing.
- Battery voltage monitoring.
- Configurable event log (50).
- DSE Configuration Suite PC Software.
- Engine speed protection, engine hours counter, engine pre-heat, engine run-time scheduler, engine idle control for start/stop.

Genset Controller DSE7420

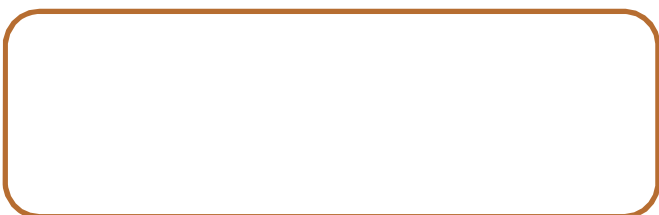


Features:

- Microprocessor control, with high stability and credibility .
- Mains supply and generator operation monitoring.
- Indicating operation status and fault conditions.
- Multiple protections; multiple parameters display such as pressure, temperature.
- Manual and automatic work mode selectable.
- Real time clock for time and date display, overall runtime display, 99 log entries
- Overall power output display.
- Integral speed/frequency detecting, telling status of start, rated operation, overspeed.
- Communication with PC via RS485 or RS232 interface, using MODBUS protocol.
- Engine ECU is available.
- Common USB cable is usable for parameter configuration.
- Multi-language is available

Optional

Engine	Alternator	Generator Set
<ul style="list-style-type: none"> • Water Jacket Preheater • Fuel-water separator • Oil pump • Oil preheater • Battery preheater 	<ul style="list-style-type: none"> • PMG excitation • Alternator heater • Winding Temperature Measuring • Anti-damp and anti-corrosion treatment • Anti-condensation heater 	<ul style="list-style-type: none"> •Tools with the machine •Coolant (-30°C)
Canopy	Fuel System	Control System
<ul style="list-style-type: none"> • Hired type • Trailer 	<ul style="list-style-type: none"> • Low fuel level alarm • Automatic fuel feeding system • Fuel T-valves • Dual Wall Integral Fuel Tanks • Dual Wall Sub-base Fuel Tanks • Automatic Fuel Fill Options • Fuel level shut down sensor 	<ul style="list-style-type: none"> • AMF function • ATS control cabinet • Double HZ & Volt • ABB & MCCB
Air Inlet system	Lube system	Starting /Charging system
<ul style="list-style-type: none"> • Air pre-heater 	<ul style="list-style-type: none"> • Manual sump pump • Lubricant oil pre-heater 	<ul style="list-style-type: none"> • Jacket water heater • Maintain free battery



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E-mail: sales@waltpower.com
 WALT reserves the right to make changes in model, technical specification, color, configuration and accessories without prior notice.
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