

# Powercity

“ 30 Years of Generator Experience “

**SOUNDPROOF & WEATHERPROOF  
VEHICLE-MOUNTED GENERATORS**

MODEL:PVG-20SQ    
ISO9001:2008



## GENSET FEATURES

### ENGINE

- Heavy duty diesel engine.
- Vertical inline, Four stroke, water cooled.
- Direct injection fuel system.
- 12 VDC starter and charge alternator.
- Replaceable fuel filter, oil filter and dry element air filter.
- Cooling radiator and fan.
- Industrial capacity exhaust silencer.
- Built in vibration isolators.
- Closed crankcase ventilation system with filter to eliminate engine room contamination.
- Natural Aspirated.

### ALTERNATOR

- Over-rated, brushless, rotating exciter with solid state AVR.
- Class H winding insulations provide high temperature resistance.
- Standard degree of protection IP21.
- Self exciting and self regulating.
- Factory impregnated epoxy varnished.
- Heavy duty steel frame cast-iron cover.
- Stator grease insulation covered.
- Flywheel location cooling fan.

### CHASSIS

- The complete generator set is mounted as a whole on a heavy duty fabricated steel base frame.
- Anti-vibration pads are fixed between the engine and alternator footings and the base frame.
- Base frame with integrated fuel tank.
- Cylindrical fuel gauge, low stock level switch and drain plug on the fuel tank.
- Provide external fuel connection fittings for bigger fuel reserve tank.
- Outside Oil drain plug designed easy access for change oil maintenance.
- Base frame are factory rustproof using special powder paint coating.

### CANOPY

- Compact designed soundproof and weather-proof canopy.
- All canopy parts are designed with modular principles.
- Detachable designed doors provide most accessible for maintenance and repairs.
- All metal canopy parts are factory rustproof using special powder paint coating.
- Heavy duty hanging points designed both for genset & fuel tank mounting strongly
- Transparent glass control panel viewing window.
- Optimized ventilation design makes generator ventilation well.
- Large capacity designed of fuel tank

### CONTROL SYSTEM

- Powercity's designed integrated artificial intelligence controller.
- The keyless module manual or automatic start and stop the generator.
- Automatic shutdown on abnormal conditions and indicates service affecting faults.
- Compatible with most standard ATS.
- LED digital metering shows line voltage, current, frequency, operating hours and battery volts.



**Digital Control Panel**

## SPECIFICATIONS

MODEL	PVG-20SQ
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### • ALTERNATOR

Make & Model	POWERCITY KT14E		
Frequency	Hz	50	60
Output Rating (KVA)	Prime	16/12.8	20/16
	Standby	17.6/14	22/17.6
No. of Phases	3-Phase (4 Wires)		
Rated Voltage	V	200~240 / 380~480	
Power Factor	0.8 (Lagging)		
Voltage Regulation	%	Within +/- 1.5	
Excitation	Brushless, Rotating Exciter (with A.V.R.)		
Insulation	Class H		

### • ENGINE

Brand	QUANCHAI		
Make & Model	N485D		
Type	Vertical Inline, Water-cooled, 4-Stroke Direct Injected, Natural Aspirated		
Output Rating	Kw/rpm	15.5/1500	18/1800
No. of Cylinders-Bore x Stroke	mm	4 - 80 x 90	
Piston Displacement	L	1.809	
Fuel	ASTM No.2 Diesel Fuel or Equivalent		
Fuel Consumption @75% load	L/h	3.7	4.1
Lube Oil Capacity	L	5	
Coolant Capacity	L	13.5	
Battery Capacity	V-Ah	12V-80Ah (1pcs)	
Fuel Tank Capacity	L	175	

### • UNIT

Dimensions	Length mm	1450
	Width mm	1600
	Height mm	900
Dry Weight	kg	750

### • SOUND LEVEL

dB @ 7m/1m	62/78	65/80
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(Specifications are subject to change without prior notice.)



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[www.powercity.ph](http://www.powercity.ph) or [www.powercity.com.cn](http://www.powercity.com.cn)

STANDBY: Continuous running at variable load for duration of an emergency. No overload is permitted on these ratings.

STANDBY:

PRIME: Continuous running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hour period.

PRIME: