



**Model: SP-55DC-6**

**36KW/45KVA/1800rpm/60HZ**



### Standard Features

● Engine : CUMMINS 4BT3.9-G2

● Alternator : Single-bearing generator, insulation class H/H

● Standard control screen

● 50℃ water tank radiator, cooling fan, with fan safety cover

● Air filter, fuel filter, engine oil filter

● Common chassis and shock absorber

● 24V charge alternator

● Smoke exhaust bellows, smoke exhaust bends, industrial muffler and standard parts for connection

● cutout switch

● Use data randomly

### OPTIONS

Coolant heater

oil - water separator

Oil heater

Automatic transfer switch / ATS

Silent type / trailer type

Standard container type

Maintenance-free lead-acid battery and battery connection cables

Daily fuel tank

**Changes in the technical parameters are possible without notice .**



**Model: SP-50DC-6**

**36KW/45KVA/1800rpm/60HZ**

**Generator parameters at different voltage levels**

voltage (V)	frequency (Hz)	Phase	PF (COSΦ)	current (A)	Standby Power (kW/kVA)	Prime Power (kW/kVA)
480/277	60	3	0.8	58.97	40/50	36/45
460/266	60	3	0.8	62.57	40/50	36/45
440/254	60	3	0.8	65.02	40/50	36/45
416/240	60	3	0.8	68.26	40/50	36/45

**Standby power:** refers to the continuous operating power under variable load conditions, allowing 10% of 1 hour overload every 12 hours .

**Commonly used power:** refers to the continuous operating power under the variable load condition in case of emergency;

**The relationship between engine power and altitude:** above 1500 meters of altitude, for every 300 meters increased, the power decreases by 5%.

**SALES PROMISES**

The products provided by the company are all brand-new products, and each unit has undergone strict factory testing. The warranty period of the product is one year from the completion of commissioning or 1500 hours of cumulative operation, or 15 months from the date of shipment to users (i. e., not installed and used for a long time), whichever comes first. Services and accessories for our products are available from distributors or corporate headquarters in your location.



**Model: SP-50DC-6**

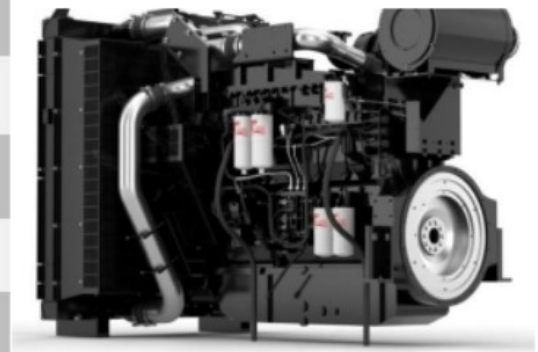
**36KW/45KVA/1800rpm/60HZ**

**ENGINE SPECIFICATION**

<b>Model</b>	<b>SP-50DC-6</b>	<b>Voltage</b>	<b>440V/254V</b>
<b>Standby Power / capacity</b>	<b>40kW/50kVA</b>	<b>Frequency</b>	<b>60HZ</b>
<b>Prime Power / capacity</b>	<b>36kW/45kVA</b>	<b>Rated speed</b>	<b>1800r/min</b>

**Engine technical parameters**

<b>Manufacturer/Model</b>	<b>CUMMINS 4BT3.9-G2</b>
<b>Capacity factor</b>	<b>44</b>
<b>Style</b>	<b>Vertical, in-line, water-cooled, four-stroke</b>
<b>Inhale way</b>	<b>Inter-cooling</b>
<b>Number of cylinder</b>	<b>4/L</b>
<b>Bore and stroke (mm)</b>	<b>102×120 (mm)</b>
<b>Displacement</b>	<b>3.9L</b>
<b>Compression ratio</b>	<b>17.3: 1</b>
<b>100%Oil consumption(L/H)</b>	<b>9.47</b>
<b>Total oil capacity(L)</b>	<b>11</b>
<b>Coolant capacity(L)</b>	<b>19</b>
<b>Machine combustion ratio</b>	<b>≤0.1</b>
<b>Starting mode</b>	<b>Electrical start of the DC24V</b>



Pictures for reference only



**Model: SP-50DC-6**

**36KW/45KVA/1800rpm/60HZ**

**Generator technical parameters**

<b>Manufacturer/Model</b>	<b>SP-50E4</b>
<b>Number of Phase</b>	<b>3</b>
<b>Connecting Type</b>	<b>3 Phase and 4 Wires, Y type connecting</b>
<b>Power Factor</b>	<b>0.8</b>
<b>Protection Class</b>	<b>IP23</b>
<b>Exciter Type</b>	<b>Brushless exciting</b>
<b>Insulation Class/Temperature Rise</b>	<b>H/H</b>
<b>Telephone Influence Factor (TIF)</b>	<b>&lt;50</b>
<b>Telephone harmonic coefficient</b>	<b>&lt;2%</b>
<b>Alternator Capacity</b>	<b>45kVA</b>
<b>Voltage</b>	<b>400V</b>



**Pictures for reference only**  
**Optional Brand : Leroysoner、Stanford**



## Controller

1.The LCD is 132x64, with backlight, four languages (simplified Chinese, English, Spanish and Russian) display, touch the button operation;

2.Using silicone panel and keys, to adapt to the environment of high and low temperature ability;

3.With the function of over voltage, under voltage, over frequency, under frequency and over current protection;

4.Control and protection function: realize automatic start / shutdown, closing (ATS change-over) and perfect fault display protection function;

5.Collect and display the mains / power generation three-phase voltage, three-phase current, frequency and power parameters;

6.With RS485 communication interface, using the MODBUS protocol can achieve the "three remote" function;



**Note: The above content is the parameters of the SmartGen control system. If other brand control systems are selected, the technical specifications of the actual control system used shall prevail.**

