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## **PERKINS MARINE GENERATOR SET**

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**Perkins Marine Genset 28kVA  
50Hz 1500rpm 400Volts 3Phases**  
professional diesel generator set  
manufacturer with Power solutions to deliver  
flexibility, reliability and cost-effectiveness.



Marine Genset with Canopy For reference only.  
Image shown may not reflect actual package.

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# MARINE GENSET 22.4kW 28kVA

50Hz 1500 rpm 400 Volts 3 phases

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<b>General Features</b>	<b>Standards &amp; Conditions</b>
<ul style="list-style-type: none"><li>●Perkins Marine engine</li><li>●Customized Marine Alternator</li><li>●LCD control panel</li><li>●Speed governor: Electronic</li><li>●Excitation: Self excited</li><li>●A.V.R.</li><li>●Voltage adjust knob</li><li>●Vibration isolators between base and engine-generator</li><li>●Dry air filter</li><li>●DC12V electric starter</li><li>●Operation Manual &amp; Instruments</li><li>●Marine Type engine &amp; alternator</li><li>●Certificates</li></ul> <p><b>Shop test</b></p> <ul style="list-style-type: none"><li>●Refer to CCS test program for shop test</li><li>●Starting ability test</li><li>●Warning &amp; Shutdown protection test</li><li>●Voltage deviation and speed variation at 0%, 25%, 50%, 100% and 110% load</li></ul> <p><b>Documents</b></p> <ul style="list-style-type: none"><li>●Supplier provides 1 set approval drawings (Chinese &amp; English) within 10 working days after contract signature. Each set consists of<ul style="list-style-type: none"><li>a. Genset outline drawing</li><li>b. Electrical schematic diagram</li></ul></li><li>●Packing list of Genset</li><li>●Operation manual of Genset</li><li>●Maintenance &amp; operation manual of engine</li><li>●Instruction of the AC alternator</li></ul>	<p><b>Design Standards</b></p> <p>The design and production of genset are in conformity with:</p> <ul style="list-style-type: none"><li>●ISO8528:2005</li><li>●GB/T13032-2010</li><li>●GB/T2820-2009</li><li>●CCS regulation of Steel vessel classification assessment</li></ul> <p><b>Environmental Operating Conditions</b></p> <ul style="list-style-type: none"><li>●Installation place: inboard (well ventilated)</li><li>●Ambient temperature: 5°C to 45°C</li><li>●Sea water temperature: -1°C to 32°C</li><li>●Relative humidity: ≤ 60%</li><li>●Altitude: ≤1000 m</li><li>●List ≤ 15°</li><li>●Trim ≤ 5°</li><li>●Roll angle ≤ 22° 30'</li><li>●Pitch angle ≤ 7° 30'</li></ul> <p>●Genset could start successfully and work continuously with slight salt mist, mycete, oil mist or curdle mist around.</p> <p><b>Warranty</b></p> <ul style="list-style-type: none"><li>●Engine and alternator apply for global warranty and post-sale service their own</li><li>●Warranty of genset: 12 months or 1000 working hours (effecting which comes first) under normal use</li><li>●Genset should be operated &amp; overhauled correctly according to manual &amp; operation instructions.</li></ul>

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## TECHNICAL DATA Open type Generator Set - -1500 rpm/50 Hz/ 400 Volts

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<b>Genset Model</b>	SDMP28SE-3
<b>Generator Set Performance</b>	
Genset Power rating @ 1.0 pf (PRP)	22.4kW 28kVA
Overload capability (ESP)	24.5kW 30.8kVA
Starter	Electric motor
<b>Voltage Regulation Performance</b>	
Voltage range adjustable at no load	90%-110% Un
Voltage regulation	≤ +/- 1% (steady state)
Transient Voltage Warp (100% load off)	≤ + 20%
Transient Voltage Warp (100% load on)	≤ - 15%
Recovery Time	≤ 1.5s
<b>Frequency Regulation Performance</b>	
Frequency Deviation	≤ +/- 0.5% (steady state)
Transient Frequency Warp (100% load off)	≤ + 12%
Transient Frequency Warp (100% load on)	≤ - 10%
Recovery Time	≤ 5s
<b>Emissions</b>	European standard
<b>Society of Classification</b>	N/A

● Prime Power (PRP): Prime power is available for an unlimited number of annual hours in variable load application, in accordance with GB/T2820-2009 (equivalent to ISO8528) ; A 10% overload capability is available for a period of 1 hour within a 12-hour period of operation.

● Standby Power Rating (ESP): The standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload, utility parallel or negotiated outage operation capability is available at this rating.

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## **SPECIFICATION**

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<b>Genset</b>	SDMP28SE-3
<b>Perkins Marine Engine</b>	
Model	422TGM
Manufacturer	Perkins Engine Company Limited (Made in UK)
Rated power	25.2kW
Type	Inline 4, 4 cycle, direct injection
Bore*Stroke	84*100mm
Compression Ratio	23.3:1
Displacement	2.2L
Aspiration	Turbocharged aspirated
Cooling	Heat exchanger
Governor	Electronic
Starter	DC12V electric starter
Total lubricating capacity	10.6 litres
Total coolant capacity	10 litres
Fuel specification	Light diesel
Lubricating oil specification	CF40 or better
<b>Customized Marine Alternator</b>	
Model	WHM-28-4
Rated capacity	28kVA
Type	Brushless, AVR-excited, AVR, 2/3 pitch
Construction	Single bearing, close coupled
Connecting	3 Phase 12 Wires
IP rating	IP23
Insulation / Temp. Rise	Class H / H
THD, TIF, THF	THD≤5%, TIF≤50, THF≤2%
Voltage Regulation	Less than +/- 1% (steady state) Less than +/- 2.5% (no load to full load)
<b>LCD Control Panel (Marine type)</b>	
Instruction	Start button, Stop button, Reset button, Test button, Emergency stop etc.
Indication	Tachometer Lube Oil pressure, Coolant temperature Indication according to Engine Full electronic control system
Alarm & Shutdown Protection	Overspeed, Low Lube oil pressure High Coolant temperature

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Notice: Of optional, please indicate me before place PO. The cost will be on your charge.

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### **FACTORY INSTALLED STANDARD & OPTIONAL EQUIPMENT**

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<b>System</b>	<b>Standard</b>	<b>Optional</b>
<b>Air Inlet</b>	Air cleaner Closed engine breather system Turbocharger	
<b>Cooling</b>	Heat exchanger Sea water pump Fresh water pump	
<b>Exhaust</b>	Exhaust manifold Water cooled exhaust outlet	
<b>Fuel</b>	Spin-on fuel oil filter and separator Rotary fuel injection pump Electronic governor	
<b>Lube</b>	Lubricating oil filter Oil dipstick Oil cooler Oil pump	
<b>Governor</b>	Electronic	
<b>Generator</b>	Self excited, Brushless Class H insulation Class H temperature rise Class IP23 protection Auto Voltage Regulator (AVR)	
<b>Control Panels</b>	LCD control panel Remote controller with 20m cables	
<b>Mounting</b>	Wide base Rubber vibration isolators	
<b>Starting/Charging</b>	Charging alternator 12 Volt starting motor	
<b>General</b>	Paint –blue in comply with engine Base in Black Siphon break kit	

Accessories: Siphon break kit, Seawater filter, Wet exhaust hose, Wet type muffler (Stainless), Soundproof canopy

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### **DIMENSIONS**

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Package dimension: Perkins & Customized alternator Package	
Model	SDMP28SE-3
Length (mm)	1300
Width (mm)	720
Height (mm)	850
Weight (kgs)	560

Note: Do not use for installation design.

See general dimension drawings of approval for detail.