

# CP270-TP1

## DATA SHEET



### 50HZ - THREE PHASE - PERKINS ENGINE

Standby Power (kVA)	270
Standby Power (kW)	216
Prime Power (kVA)	248
Prime Power (kW)	198
Tank Size (l)	330
Noise (dB(A) @7m)	71
Weight (kg)	2,452
Dimensions LxWxH (mm)	3,860 x 1,200 x 1,850

## STANDARD FEATURES

- 4P ABB breaker
- Deepsea DSE7320 controller (AMF start)
- Double walled chassis (bundled)
- Emergency stop
- Factory filled with anti freeze/coolant
- Electric fuel level sensor
- Low fuel alarm
- Battery isolator
- Neutral bar
- Battery charger & jacket water heater
- Pre-wired for auto start
- Rain cap on exhaust
- Mechanical fuel gauge
- Lifting points
- 50 deg C tropical radiator

## CANOPY FEATURES

- **Compatible with 2000/14/EC directives, certified noise emission level**
- Two or four lifting points depending on enclosure size
- Hidden exhaust inside the canopy with rain cap.
- Two emergency stop buttons. One on canopy and one on the controller.
- Improved air suction channel to ensure maximum cooling in the canopy
- Radiator air outlet and exhaust safely directed upwards
- Convenient access cover in enclosure for topping up radiator coolant.
- Durable powder coating on cabinet to protect against corrosion and rust
- Solid sound insulated cabinet for quiet operation

# ENGINE DATA

CAPS generator sets use leading engine brands that have state of the art technology and have compliance with ISO 8528, ISO 3046, BS 5514, DIN 6271 standards. These engines offer low fuel consumption, provide accurate speed control with have mechanical or electronic type governors.

<b>Manufacturer</b>	PERKINS
<b>Model</b>	1206A-E70TTAG3
<b>Cylinder Configuration</b>	INLINE
<b>N° of Cylinders</b>	6
<b>Displacement (l)</b>	7,01
<b>Bore (mm)</b>	105
<b>Stroke (mm)</b>	135
<b>Compression Ratio</b>	15,8:1
<b>Aspiration</b>	TURBOCHARGED
<b>Governor Type</b>	ELECTRONIC
<b>Cooling System</b>	WATER
<b>Coolant Capacity (l)</b>	25
<b>Lubrication Oil Capacity (l)</b>	16
<b>Electrical System VDC</b>	12
<b>Speed / Frequency (rpm / Hz)</b>	1,500 rpm / 50 Hz
<b>Engine Gross Power (Standby 50 Hz) (kW)</b>	248.6
<b>Fuel Consumption %110 ESP (l/h)</b>	64.5
<b>Fuel Consumption %100 PRP (l/h)</b>	56.9
<b>Fuel Consumption %75 PRP (l/h)</b>	41.5
<b>Fuel Consumption %50 PRP (l/h)</b>	28.1
<b>Exhaust Outlet Temperature (°C)</b>	511
<b>Exhaust Gas Flow (m<sup>3</sup>/min)</b>	33.7
<b>Combustion Air Flow (m<sup>3</sup>/min)</b>	15.7
<b>Cooling Air Flow (m<sup>3</sup>/min)</b>	265.2

# ALTERNATOR DATA

CAPS use global market leading Leroy Somer alternators with state of the art technology and manufactured to the highest quality for productivity and durability. Leroy Somer alternators, meet appropriate International Standards for alternators: EC 60034-1; CEI EN 60034-1; BS 4999-5000; VDE 0530, NF 51- 100,111; OVE M-10, NEMA MG 1.22.

They also feature maintenance free bearings with electronic type voltage regulators for voltage setting.

<b>Manufacturer</b>	LEROY-SOMER
<b>Model</b>	TAL046D
<b>N° of Phases</b>	3
<b>Power Factor</b>	0.8
<b>N° of Bearings</b>	SINGLE
<b>N° of Poles</b>	4
<b>N° of Leads</b>	6
<b>Voltage Regulation (Steady State)</b>	± %1
<b>Insulation Class</b>	H
<b>Degree of Protection</b>	IP 23
<b>Excitation System</b>	AVR (Automatic Voltage Regulator), Brushless
<b>Connection Type</b>	STAR
<b>Total Harmonic Content (No Load)</b>	< %2.5
<b>Frequency (Hz)</b>	50
<b>Voltage Output (VAC)</b>	230 / 400
<b>Rated Power (Standby) 400_50 Hz (kVA)</b>	275
<b>Rated Power (Continuous) 400_50 Hz (kVA)</b>	228
<b>Efficiency (4/4_400 V_50 Hz) (%)</b>	90.9

# CONTROL PANEL

## FEATURES

- The TJ-509T is a next generation genset control unit combining multi- functionality and wide communication possibilities together with a reliable and low cost design.
- The unit complies and mostly exceeds world's tightest safety, EMC, vibration and environmental standards for the industrial category.
- Software features are complete with easy firmware upgrade process through USB port. The Windows based PC software allows monitoring
- and programming through USB, RS-485, Ethernet and GPRS.
- The PC and server based Rainbow Scada software allows monitoring and control of an unlimited number of gensets from a single central location.

## FUNCTIONS

- AMF unit with uninterrupted transfer
- ATS unit with uninterrupted transfer
- Remote start controller
- Manual start controller
- Engine controller
- Remote display & control unit
- Waveform display of V & I
- Harmonic analysis of V & I
- CTs at genset or load side
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## COMMUNICATION

- SM-GPRS
- Web monitoring
- Web programming
- GSM-SMS
- E-mail
- USB Device
- RS-232
- J1939-CANBUS
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## TOPOLOGIES

- 2 phase 3 wires, L1-L2
- 2 phase 3 wires, L1-L3
- 3 phase 3 wires, 3 CTs
- 3 phase 3 wires, 2 CTs (L1-L2)
- 3 phase 3 wires, 2 CTs (L1-L3)
- 3 phase 4 wires, star
- 3 phase 4 wires, delta
- 1 phase 2 wires



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