

CP450-TP1

DATA SHEET



50HZ - THREE PHASE - PERKINS ENGINE

Standby Power (kVA)	450
Standby Power (kW)	360
Prime Power (kVA)	407
Prime Power (kW)	325
Tank Size (l)	660
Noise (dB(A) @7m)	70
Weight (kg)	4,359
Dimensions LxWxH (mm)	5,000 x 1,650 x 2,250

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.

Manufacturer	PERKINS
Model	2206A-E13TAG3
Cylinder Configuration	INLINE
N° of Cylinders	6
Displacement (l)	12.5
Bore (mm)	130
Stroke (mm)	157
Compression Ratio	16,3:1
Aspiration	TURBO CHARGE-INTERCOOLER
Governor Type	ELECTRONIC/ECM
Cooling System	WATER
Coolant Capacity (l)	51.4
Lubrication Oil Capacity (l)	40
Electrical System VDC	24
Speed / Frequency (rpm / Hz)	1,500 rpm / 50 Hz
Engine Gross Power (Standby 50 Hz) (kW)	412.5
Fuel Consumption %110 ESP (l/h)	90
Fuel Consumption %100 PRP (l/h)	89
Fuel Consumption %75 PRP (l/h)	81
Fuel Consumption %50 PRP (l/h)	62
Exhaust Outlet Temperature (°C)	630
Exhaust Gas Flow (m³/min)	72.5
Combustion Air Flow (m³/min)	26.4
Cooling Air Flow (m³/min)	654

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.

Manufacturer	LEROY-SOMER
Model	TAL047A
N° of Phases	3
Power Factor	0.8
N° of Bearings	SINGLE
N° of Poles	4
N° of Leads	6
Voltage Regulation (Steady State)	± %1
Insulation Class	H
Degree of Protection	IP 23
Excitation System	AVR (Automatic Voltage Regulator), Brushless
Connection Type	STAR
Total Harmonic Content (No Load)	< %1.5
Frequency (Hz)	50
Voltage Output (VAC)	230 / 400
Rated Power (Standby) 400_50 Hz (kVA)	450
Rated Power (Continuous) 400_50 Hz (kVA)	375
Efficiency (4/4_400 V_50 Hz) (%)	92.9

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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