CP150-TP1
DATA SHEET

50HZ - THREE PHASE - PERKINS ENGINE	
Standby Power (kVA)	150
Standby Power (kW)	120
Prime Power (kVA)	135
Prime Power (kW)	108
Tank Size (l)	315
Noise (dB(A) @7m)	71
Weight (kg)	1,365
Dimensions LxWxH (mm)	3,320 x 1,100 x 1,600

STANDARD FEATURES

- 4P ABB breaker
- Deepsea DSE7320 controller (AMF start)
- Double walled chassis (bunded)
- 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

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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	1106A-70TG1
Cylinder Configuration	6
Nº of Cylinders	INLINE
Displacement (l)	7.01
Bore (mm)	135
Stroke (mm)	105
Compression Ratio	18.2:1
Aspiration	TURBOCHARGE-INTERCOOLER
Governor Type	MECHANIC
Cooling System	WATER
Coolant Capacity (l)	21
Lubrication Oil Capacity (l)	16.5
Electrical System VDC	12
Speed / Frequency (rpm / Hz)	1500 rpm / 50 Hz
Engine Gross Power (Standby 50 Hz) (kW)	137
Fuel Consumption %110 ESP (l/h)	33.8
Fuel Consumption %100 PRP (l/h)	30.28
Fuel Consumption %75 PRP (l/h)	22.7
Fuel Consumption %50 PRP (l/h)	15.9
Exhaust Outlet Temperature (°C)	576
Exhaust Gas Flow (m^3/min)	22.66
Combustion Air Flow (m^3/min)	8.09
Cooling Air Flow (m^3/min)	182

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	TAL044H
Nº of Phases	3
Power Factor	0.8
Nº of Bearings	SINGLE
Nº of Poles	4
Nº 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)	〈 %2
Frequency (Hz)	50
Voltage Output (VAC)	230 / 400
Rated Power (Standby) 400_50 Hz (kVA)	150
Rated Power (Continuous) 400_50 Hz (kVA)	135
Efficiency (4/4_400 V_50 Hz) (%)	92.8

CONTROL PANEL

FEATURES

- 4-Line back-lit LCD text display
- Five key menu navigation
- Front panel editing with PIN protection
- Customisable status screens
- Power save mode
- Support for up to three remote display units
- 9 configurable inputs
- 8 configurable outputs
- Flexible sender inputs
- Configurable timers and alarms
- 3 configurable maintenance alarms
- Multiple date and time scheduler
- Configurable event log (250)
- Tier 4 CAN engine support
- Integral PLC editor
- Easy access diagnostic page
- CAN and Magnetic Pick-up/Alt. sensing
- Fuel usage monitor and low fuel alarms
- Charge alternator failure alarm
- Manual speed control (on compatible CAN engines)
- Manual fuel pump control
- Engine exerciser
- "Protections disabled" feature
- kW & kV Ar protection
- Reverse power (kW & kV Ar) LED and LCD alarm indication
- Power monitoring (kW h, kV Ar, kV A h, kV Ar h)
- Load switching (load shedding and dummy load outputs)
- Automatic load transfer (DSE7320)
- Unbalanced load protection
- Independent Earth Fault trip
- True dual mutual standby with load balancing timer (DSE7310 only)
- USB connectivity
- Backed up real time clock
- Fully configurable via DSE Configuration Suite PC software
- Configurable display languages
- Remote SCADA monitoring via DSE Configuration Suite PC software
- User selectable RS232 and RS485 communications
- Configurable Gencomm pages
- Advanced SMS messaging (additional external modem required)
- Start & stop capability via SMS messaging
- Additional display screens to help with modem diagnostics
- Idle control for starting & stopping.
- DSENet® expansion compatible
- Heated display option available

FUNCTIONS

- AMF unit
- Remote start controller
- Manuel start controller
- Engine controller
- Remote display & control unit
- CTs at genset or load side
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COMMUNICATION

- Web monitoring
- GSM-SMS (require externally modem)
- Email
- USB Device
- RS-232
- J1939-CANBUS

TOPOLOGIES

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

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