### 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 (I)	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



# 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.

Cylinder Configuration  N° of Cylinders  Displacement (I)  Bore (mm)  135  Stroke (mm)  105  Compression Ratio  Aspiration  TURBOCHARGE-INTERCOOLER  Governor Type  MECHANIC  Cooling System  Coolant Capacity (I)  Lubrication Oil Capacity (I)  Electrical System VDC  Speed / Frequency (rpm / Hz)  Engine Gross Power (Standby 50 Hz) (kW)  Fuel Consumption %10 PRP (I/h)  Fuel Consumption %50 PRP (I/h)  Exhaust Outlet Temperature (°C)  Exhaust Gas Flow (m³/min)  Cooling System  BINLINE  INDIAN  I		
Model 1106A-70TG1  Cylinder Configuration 6  N° of Cylinders INLINE  Displacement (I) 7.01  Bore (mm) 135  Stroke (mm) 105  Compression Ratio 18.2:1  Aspiration TURBOCHARGE-INTERCOOLER  Governor Type MECHANIC  Cooling System WATER  Coolant Capacity (I) 21  Lubrication Oil Capacity (I) 16.5  Electrical System VDC 12  Speed / Frequency (rpm / Hz) 1500 rpm / 50 Hz  Engine Gross Power (Standby 50 Hz) (kW) 137  Fuel Consumption %10 PRP (I/h) 33.8  Fuel Consumption %75 PRP (I/h) 30.28  Fuel Consumption %50 PRP (I/h) 15.9  Exhaust Outlet Temperature (°C) 576  Exhaust Gas Flow (m³/min) 22.66  Combustion Air Flow (m³/min) 8.09		
Cylinder Configuration  N° of Cylinders  Displacement (I)  Bore (mm)  Stroke (mm)  Compression Ratio  Aspiration  TURBOCHARGE-INTERCOOLER  Governor Type  MECHANIC  Cooling System  WATER  Coolant Capacity (I)  Lubrication Oil Capacity (I)  Electrical System VDC  Speed / Frequency (rpm / Hz)  Engine Gross Power (Standby 50 Hz) (kW)  Fuel Consumption %10 PRP (I/h)  Fuel Consumption %50 PRP (I/h)  Exhaust Outlet Temperature (°C)  Exhaust Gas Flow (m³/min)  Cooling System  BILLINE  INLINE  INLI	Manufacturer	PERKINS
N° of Cylinders  Displacement (I)  Bore (mm)  Stroke (mm)  Compression Ratio  Aspiration  TURBOCHARGE-INTERCOOLER  Governor Type  MECHANIC  Cooling System  WATER  Coolant Capacity (I)  Lubrication Oil Capacity (I)  Electrical System VDC  Speed / Frequency (rpm / Hz)  Engine Gross Power (Standby 50 Hz) (kW)  Fuel Consumption %110 ESP (I/h)  Fuel Consumption %75 PRP (I/h)  Exhaust Outlet Temperature (°C)  Exhaust Gas Flow (m³/min)  Cooling System Intercooler  MECHANIC  105  TURBOCHARGE-INTERCOOLER  MECHANIC  105  105  105  105  105  105  105  10	Model	1106A-70TG1
Displacement (I)   7.01   80re (mm)   135   135   10	Cylinder Configuration	6
Bore (mm) Stroke (mm) 105 Compression Ratio 18.2:1 Aspiration TURBOCHARGE-INTERCOOLER Governor Type MECHANIC Cooling System WATER Coolant Capacity (I) Lubrication Oil Capacity (I) 16.5 Electrical System VDC 12 Speed / Frequency (rpm / Hz) Engine Gross Power (Standby 50 Hz) (kW) Fuel Consumption %110 ESP (I/h) Fuel Consumption %100 PRP (I/h) Fuel Consumption %50 PRP (I/h) Fuel Consumption %50 PRP (I/h) Exhaust Outlet Temperature (°C) Exhaust Gas Flow (m³/min) Combustion Air Flow (m³/min) 8.09	N° of Cylinders	INLINE
Stroke (mm)  Compression Ratio  Aspiration  TURBOCHARGE-INTERCOOLER  Governor Type  MECHANIC  Cooling System  WATER  Coolant Capacity (I)  Lubrication Oil Capacity (I)  Electrical System VDC  Speed / Frequency (rpm / Hz)  Engine Gross Power (Standby 50 Hz) (kW)  Fuel Consumption %110 ESP (I/h)  Fuel Consumption %75 PRP (I/h)  Fuel Consumption %50 PRP (I/h)  Exhaust Outlet Temperature (°C)  Exhaust Gas Flow (m³/min)  10.18.2:1  TURBOCHARGE-INTERCOOLER  MECHANIC  10.18.2:1  TURBOCHARGE-INTERCOOLER  MECHANIC  10.18.2:1  TURBOCHARGE-INTERCOOLER  10.18.2:1  TURBOCHARGE-INTERCOOLER  10.18.2:1  TURBOCHARGE-INTERCOOLER  10.18.2:1  TURBOCHARGE-INTERCOOLER  10.18.2:1  TURBOCHARGE-INTERCOOLER  MECHANIC  10.18.2:1  TURBOCHARGE-INTERCOOLER  MECHANIC  10.21  10.21  10.22  10.21  10.	Displacement (I)	7.01
Compression Ratio  Aspiration  TURBOCHARGE-INTERCOOLER  Governor Type  MECHANIC  Cooling System  WATER  Coolant Capacity (I)  Lubrication Oil Capacity (I)  Electrical System VDC  Speed / Frequency (rpm / Hz)  Engine Gross Power (Standby 50 Hz) (kW)  Fuel Consumption %110 ESP (I/h)  Fuel Consumption %75 PRP (I/h)  Fuel Consumption %50 PRP (I/h)  Exhaust Outlet Temperature (°C)  Exhaust Gas Flow (m³/min)  18.2:1  TURBOCHARGE-INTERCOOLER  WATER  TURBOCHARGE-INTERCOOLER  18.2:1  TURBOCHARGE-INTERCOOLER  18.2:1  TURBOCHARGE-INTERCOOLER  WATER  16.5  Extending System  WATER  Extending  WATER  16.5  Extending System  WATER  Extending  WATER  WATER  Extending	Bore (mm)	135
Aspiration TURBOCHARGE-INTERCOOLER Governor Type MECHANIC  Cooling System WATER  Coolant Capacity (I) 21  Lubrication Oil Capacity (I) 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 (I/h) 33.8  Fuel Consumption %100 PRP (I/h) 30.28  Fuel Consumption %50 PRP (I/h) 15.9  Exhaust Outlet Temperature (°C) 576  Exhaust Gas Flow (m³/min) 22.66  Combustion Air Flow (m³/min) 8.09	Stroke (mm)	105
Governor Type  Cooling System  WATER  Coolant Capacity (I)  Lubrication Oil Capacity (I)  Electrical System VDC  Speed / Frequency (rpm / Hz)  Engine Gross Power (Standby 50 Hz) (kW)  Fuel Consumption %110 ESP (I/h)  Fuel Consumption %100 PRP (I/h)  Fuel Consumption %50 PRP (I/h)  Exhaust Outlet Temperature (°C)  Exhaust Gas Flow (m³/min)  MECHANIC  WATER  WATER  WATER  WATER  A  WATER  WATER  A  SA  SA  1500 rpm / 50 Hz  12  Speed / Frequency (rpm / Hz)  1500 rpm / 50 Hz  137  Fuel Consumption %100 PRP (I/h)  33.8  Fuel Consumption %100 PRP (I/h)  15.9  Exhaust Outlet Temperature (°C)  Exhaust Gas Flow (m³/min)  22.66  Combustion Air Flow (m³/min)  8.09	Compression Ratio	18.2:1
Cooling System Coolant Capacity (I) Lubrication Oil Capacity (I) Lubrication Oil Capacity (I) Electrical System VDC 12 Speed / Frequency (rpm / Hz) Engine Gross Power (Standby 50 Hz) (kW) 137 Fuel Consumption %110 ESP (I/h) 33.8 Fuel Consumption %100 PRP (I/h) 40.22.7 Fuel Consumption %50 PRP (I/h) 50.28 Fuel Consumption %50 PRP (I/h) 50.20 Exhaust Outlet Temperature (°C) 576 Exhaust Gas Flow (m³/min) 50.28 Combustion Air Flow (m³/min) 50.28 60.	Aspiration	TURBOCHARGE-INTERCOOLER
Coolant Capacity (I)  Lubrication Oil Capacity (I)  Electrical System VDC  Speed / Frequency (rpm / Hz)  Engine Gross Power (Standby 50 Hz) (kW)  Fuel Consumption %110 ESP (I/h)  Fuel Consumption %100 PRP (I/h)  Fuel Consumption %75 PRP (I/h)  Fuel Consumption %50 PRP (I/h)  Exhaust Outlet Temperature (°C)  Exhaust Gas Flow (m³/min)  Combustion Air Flow (m³/min)  21  16.5  12  1500 rpm / 50 Hz  1500 rpm /	Governor Type	MECHANIC
Lubrication Oil Capacity (I)  Electrical System VDC  Speed / Frequency (rpm / Hz)  Engine Gross Power (Standby 50 Hz) (kW)  Fuel Consumption %110 ESP (I/h)  Fuel Consumption %100 PRP (I/h)  Fuel Consumption %75 PRP (I/h)  Exhaust Outlet Temperature (°C)  Exhaust Gas Flow (m³/min)  16.5  12  1500 rpm / 50 Hz  137  137  138  Fuel Consumption %100 PRP (I/h)  30.28  Fuel Consumption %50 PRP (I/h)  15.9  Exhaust Outlet Temperature (°C)  576  Exhaust Gas Flow (m³/min)  22.66  Combustion Air Flow (m³/min)  8.09	Cooling System	WATER
Electrical System VDC  Speed / Frequency (rpm / Hz)  Engine Gross Power (Standby 50 Hz) (kW)  137  Fuel Consumption %110 ESP (I/h)  33.8  Fuel Consumption %100 PRP (I/h)  30.28  Fuel Consumption %75 PRP (I/h)  22.7  Fuel Consumption %50 PRP (I/h)  Exhaust Outlet Temperature (°C)  Exhaust Gas Flow (m³/min)  22.66  Combustion Air Flow (m³/min)  8.09	Coolant Capacity (I)	21
Speed / Frequency (rpm / Hz)  Engine Gross Power (Standby 50 Hz) (kW)  Fuel Consumption %110 ESP (I/h)  Fuel Consumption %100 PRP (I/h)  Fuel Consumption %75 PRP (I/h)  Fuel Consumption %50 PRP (I/h)  Exhaust Outlet Temperature (°C)  Exhaust Gas Flow (m³/min)  Combustion Air Flow (m³/min)  1500 rpm / 50 Hz  137  137  138  22.7  Fuel Consumption %50 PRP (I/h)  15.9  Exhaust Outlet Temperature (°C)  576  Exhaust Gas Flow (m³/min)  8.09	Lubrication Oil Capacity (I)	16.5
Engine Gross Power (Standby 50 Hz) (kW)  Fuel Consumption %110 ESP (I/h)  Fuel Consumption %100 PRP (I/h)  Fuel Consumption %75 PRP (I/h)  Fuel Consumption %50 PRP (I/h)  Exhaust Outlet Temperature (°C)  Exhaust Gas Flow (m³/min)  22.66  Combustion Air Flow (m³/min)  8.09	Electrical System VDC	12
Fuel Consumption %110 ESP (I/h)  Fuel Consumption %100 PRP (I/h)  Fuel Consumption %75 PRP (I/h)  Fuel Consumption %50 PRP (I/h)  Exhaust Outlet Temperature (°C)  Exhaust Gas Flow (m³/min)  22.66  Combustion Air Flow (m³/min)  8.09	Speed / Frequency (rpm / Hz)	1500 rpm / 50 Hz
Fuel Consumption %100 PRP (I/h)  Fuel Consumption %75 PRP (I/h)  Fuel Consumption %50 PRP (I/h)  Exhaust Outlet Temperature (°C)  Exhaust Gas Flow (m³/min)  22.66  Combustion Air Flow (m³/min)  8.09	Engine Gross Power (Standby 50 Hz) (kW)	137
Fuel Consumption %75 PRP (I/h)  Fuel Consumption %50 PRP (I/h)  Exhaust Outlet Temperature (°C)  Exhaust Gas Flow (m³/min)  22.66  Combustion Air Flow (m³/min)  8.09	Fuel Consumption %110 ESP (I/h)	33.8
Fuel Consumption %50 PRP (I/h)  Exhaust Outlet Temperature (°C)  Exhaust Gas Flow (m³/min)  22.66  Combustion Air Flow (m³/min)  8.09	Fuel Consumption %100 PRP (I/h)	30.28
Exhaust Outlet Temperature (°C)  Exhaust Gas Flow (m³/min)  22.66  Combustion Air Flow (m³/min)  8.09	Fuel Consumption %75 PRP (I/h)	22.7
Exhaust Gas Flow (m³/min)  22.66  Combustion Air Flow (m³/min)  8.09	Fuel Consumption %50 PRP (I/h)	15.9
Combustion Air Flow (m³/min) 8.09	Exhaust Outlet Temperature (°C)	576
	Exhaust Gas Flow (m³/min)	22.66
Cooling Air Flow (m³/min)	Combustion Air Flow (m³/min)	8.09
ooding Air Flow (iii / mini)	Cooling Air Flow (m³/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	TALO44H
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	Н
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

### **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

Due to a policy continuous improvement CAPS reserves the right to amend details and specifications without notice and all information given is subject to the CAPS" current condition of sales

