

TP700

POWERED BY PERKINS 2806A-E18TTAG4



LEROY-SOMER

PRIME RATINGS

These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercial purchased power. There is no limitation to the annual hours of operation and this model can supply 10% Overload power for 1hour in 12 hours operation.

STANDBY RATINGS

These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings.

Genset Model	TP700
Engine Model	2806A-E18TTAG4
Alternator Model	TAL049C
Controller Model	Deep Sea 4520 MKII

CSCO	SPerkins MADE N UK	
2957449.4		SCO COLORADOR

OUTPUT RATINGS		50Hz		60Hz	
		PRIME	STANDBY	PRIME	STANDBY
KVA POWER	KVA	706	780	802	888
KW POWER	KW	565	624	642	710
RATED SPEED	r.p.m	1500		1800	
VOLTAGE	V	230/400 240/415			0/220 0/380

ENGINE SPECIFICATIONS





Diesel



Water Cooled



50/60Hz



50 Amps Battery Charging Alternator



24V Negative

Manufacturer	PERKINS
Model	2806A-E18TTAG4
Engine Type	4-stroke
Aspiration Type	Parallel Turbocharged air to air charge cooled
Bore and Stroke	145 x 183 mm
Cooling System	Water Cooled
Number of cylinders and arrangement	6/ Vertical in Line
Compression Ratio	14:1
Circuit Breaker Type	3 Pole MCCB
Displacement	18,1 L







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ALTERNATOR SPECIFICATIONS

Manufacturer	Leroy Somer
Model	TAL049C
No of Bearings	1
Insulation Class	Н
Wires	6(12)
Ingress Protection Rating	IP23
Excitation System	SHUNT
AVR Model	R150

Over speed (rpm)		2250
Voltage Regulation(steady state	e)	+/- 1.0%
Wave from NEMA=TIF		50
Wave From IEC=THF		2.0%
Total Harmonic Content LL/NN	ſ	3.5%
Radio Interference	Supression is in line wi European Standard EN61000-	
Radiant Heat kW	50Hz	39.6
	60Hz	48.4

■ IP23 Protection

■ H Class Insulation

■ SHUNT Excitation System



WEIGHT AND DIMENSIONS				
		OPEN	CLOSE	
LENGTH	cm	413	600	
WIDTH	cm	169	238	
HEIGHT	cm	257	260	
WEIGHT	kg	4979	7000	



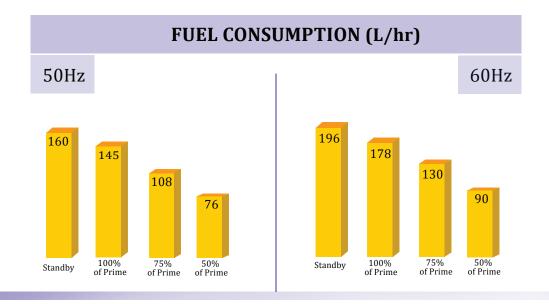






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			50	Hz	60	Hz
	SILENCER TYPE			INDUS'	TRIAL	
ST	MAX. ALLOWABLE BACK PRESSURE	kPa(in Hg)	6.0(1.8)	6.0	(1.8)
AU	SILENCER NOISE REDUCTION LEVEL		15	dB		
XH			PRIME	STANDBY	PRIME	STANDBY
盈	EXHAUST GAS FLOW	m³/min	119	128	148	157
	EXHAUST GAS TEMPERATURE	°C	461	465	433	455







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	AIR FILTER TYPE REPLACEABLE ELEMENT			NT		
-4			50	Hz	60)Hz
I R			PRIME	STANDBY	PRIME	STANDBY
A	COMBUSTION AIR FLOW	m³/min	52	57	68	71
	MAX. COMBUSTION AIR INTAKE RESTRICTION	kPa(in H20)	3.7 (14.9)	3.7	(14.9)

LUBRICATION SYSTEM

Oil Filter Type		Spin-on , Full Flow
Total Oil Capacity	L(US gal)	68.0 (18.0)
Oil Pan		
Oil Type		CH4 15W-40

COOLING SYSTEM			
		50Hz	60Hz
Water Pump Type		Centr	rifugal
Cooling System Capacity	L	110	110
Radiator Fan Load	kW	91	120
Radiator Cooling Airflow	m³/min	852	
External Restriction to Cooling Airflow	КРа	85	95













DSE**4520 MKII**

AUTO START AND AUTO MAINS FAILURE CONTROL MODULES

(ALTERNATOR FREQUENCY & CAN SPEED SENSING)

DSE4520 MKII



KEY FEATURES

- Auto Start and AMF mode in one module (DSE4520 MKII only)
- J1939-75 support and CAN alarm ianore function
- Alternator frequency & CAN speed sensing in one variant
- · Largest back-lit icon display in its class (configurable as text display)
- Heated display option
- Real time clock provides accurate event logging
- Fully configurable via the fascia or PC using USB communication
- Extremely efficient power save
- 3 phase generator sensing
- 3 phase mains (utility) sensing (DSE4520 MKII only)
- Compatible with 600 V ph to ph nominal systems
- Generator/load power monitoring (kW, kV A, kV Ar, pf)
- Accumulated power monitoring (kW h, kVA h, kVAr h)
- Generator overload protection (kW)
- Generator/load current monitoring and protection
- Fuel and start outputs (configurable when using CAN)
- 4 configurable DC outputs
- 5 V output
- Configurable fuel & crank outputs
- 3 configurable analogue/digital inputs

- 4 configurable digital inputs
- Configurable staged loading outputs
- 3 engine maintenance alarms
- Engine speed protection
- Engine hours counter
- Engine pre-heat
- Engine run-time scheduler
- Engine idle control for starting & stopping
- Tier 4 engine instrumentation screens
- Battery voltage monitoring
- Start on low battery voltage
- Configurable remote start input
- 1 alternative configuration
- Comprehensive warning, electrical trip or shutdown protection upon fault condition
- LCD alarm indication
- Coolant temperature pre-alarm
- Event loa (50)
- Fuel solenoid pulling circuit
- On-screen line diagram on/off functionality
- Configurable CAN instrumentation (10)
- Water in fuel digital input
- Tank bund alarm digital input
- Generator at rest output
- ECU periodic wake-up for information retrieval
- Back-light power-save mode
- Adjustable delay crank timer
- Pre/post heat functionality

- Overload protection
- Mains/generator A/C system selection
- Output timer for external audible alarm
- Accommodates a wide range of senders and temperatures

KEY BENEFITS

- Ultimate size to feature ratio
- Automatically transfers between mains (utility) and generator (DSE4520 MKII only)
- Hours counter provides accurate information for monitoring and maintenance periods
- User-friendly set-up and button layout for ease of use
- Multiple parameters are monitored simultaneously which are clearly displayed on the largest back-lit icon display in its class
- The module can be configured to suit a wide range of applications
- Uses DSE Configuration Suite PC Software for simplified configuration
- Compatible with a wide range of CAN engines including Tier 4
- Licence-free PC software
- IP65 rating (with optional gasket) offers increased resistance to water ingress

SPECIFICATIONS

CONTINUOUS VOLTAGE BATING 8 V to 35 V Continuous

CRANKING DROPOUTS Able to survive 0 V for 50 mS, providing supply was at least 10 V before dropout and supply recovers to 5 V. This is achieved without the need for internal batteries LEDs and backlight will not be maintained

MAXIMUM OPERATING CURRENT 85 mA at 12 V, 96 mA at 24 V

MAXIMUM STANDBY CURRENT 51 mA at 12 V, 47 mA at 24 V

MAXIMUM SLEEP CURRENT

MAXIMUM DEEP SLEEP CURRENT <10 uA at 12 V, <10 uA at 24 V

MAINS (UTILITY) DSE4520 MKII ONLY

VOLTAGE RANGE 15 V to 415 V AC (Ph to N) 26 V to 719 V AC (Ph to Ph)

FREQUENCY RANGE

3.5 Hz to 75 Hz

OUTPUT A (FUEL)

10 A short term, 5 A continuous, at supply voltage

OUTPUT B (START)

10 A short term, 5 A continuous, at supply voltage

AUXILIARY OUTPUTS C, D, E & F 2 A DC at supply voltage

GENERATOR

VOLTAGE RANGE

15 V to 415 V AC (Ph to N) 26 V to 719 V AC (Ph to Ph)

FREQUENCY RANGE 3.5 Hz to 75 Hz

DIMENSIONS OVERALL

140 mm x 113 mm x 43 mm 5.5" x 4.4" x 1.7"

PANEL CUT-OUT 118 mm x 92 mm 4.6" x 3.6"

MAXIMUM PANEL THICKNESS

STORAGE TEMPERATURE RANGE

-40 °C to +85 °C -40 °F to +185 °F

OPERATING TEMPERATURE RANGE -30 °C to +70 °C

-22 °F to +158 °F

40 °C to +70 °C (for heated display variant) -40 °F to +158 °F (for heated display variant)



