



130 KW / 165 KVA POWERED by

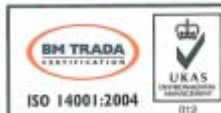


| MODEL | | TP-P165-T1-50 | |
|---|---------|---------------|-----|
| <p>Triton Power is a world leader in the design, manufacture of stationary, mobile and rental generator sets and Power Modules from 10 to 2000 kW. Through our commitment to quality we manufacture with only the highest quality components from companies like Cummins, John Deere, Perkins, Marathon, and Deep Sea. All of this plus our worldwide warranty, customer service professionals, is why Triton is the</p> <p>THE POWER OF QUALITY</p> | | | |
| <p>Available Voltage 3 Phase 120/208, 110/220, 120/240, 277/480 Power Factor 0.8</p> | Standby | kVA | 165 |
| | | kW | 130 |
| | Prime | kVA | 150 |
| | | kW | 120 |



Standby : Continuous running at variable load for duration of an emergency. No overload is permitted on these ratings. In accordance with ISO 3046 .
Prime : Continuous running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hour period. In accordance with ISO 8528, ISO 3046.

- High quality, reliable and complete power unit
- Compact design
- Easy start and maintenance
- Every generator set is subject to a comprehensive test program which includes full load testing and checking and providing of all control and safety shut down functions testing
- Full engineered with a wide range of options and accessories:
 - Sound Attenuated Enclosure
 - Trailer with fuel tank
 - UL Listed Fuel Tank
 - Permanent Magnet Generator
 - Electronic Governor



Manufacturer reserves the right to make changes in model, technical specifications, color, equipment and accessories without prior notice.
 All photos are representative and may not reflect exact model



ENGINE INFORMATION

| | | |
|---|--------------------------|---------------------------------------|
| ENGINE MAKE | | PERKINS |
| Model | | 1106C-E66TAG3 |
| Engine Speed | RPM | 1500 |
| Engine Power Output at rated rpm | kWm | 148 |
| | HP | 199 |
| Cooling | | Radiator Cooled |
| Aspiration | | Turbocharged & Intercooled |
| Total Displacement | Liter | 6.6 |
| No. of Cylinders and Build | | 6-inline |
| Bore and Stroke | mm x mm | 105 x 127 |
| Compression Ratio | | 16.2:1 |
| Governor | | Electronic |
| Fuel Consumption (L/hr) | Full Load | 33.1 |
| | 75% Load | 25.8 |
| | 50% Load | 17.2 |
| Fuel Tank Capacity (Non-UL) | Liter | 250 |
| Oil Capacity | Liter | 16.5 |
| Coolant Capacity | Liter | 21 |
| Radiator Cooling Air | m³/min | 314 |

| | |
|---|--|
| <p><u>Perkins 1106C</u> The 1106C-E66TAG ElectropaKs are the latest addition to Perkins 1100 Series Electric Power line-up. Offering improved power density from a compact package, these ElectropaK's build on Perkins reputation within the Power Generation Industry. These ultra clean engines are assembled on a new high technology production line. Frequent computerized checks during the production process ensure high build quality is maintained throughout. Hitting the key power nodes required by the market, the 1106C-E66TAG product line-up consists of three models offering a power solution for both Prime and Standby applications, in 50 Hz and 60 Hz territories.</p> | <p><u>State of the Art Design</u> The 1106C-E66TAG3 incorporates the latest common-rail fuel system technologies with a closely optimised air-management system which is overseen by the latest generation of electronic engine control. This allows the 1106C ElectropaK range to deliver high power density, low exhaust emissions with the minimum of heat rejection and excellent fuel economy.</p> <p><u>Product Support</u></p> <ul style="list-style-type: none"> • Total worldwide service is provided through a network of 4,000 distributors and dealers. • TIPSS - The Integrated Parts and Support System enables customers to specify and order parts electronically as well as service engines with on-line guides and service tools. |
|---|--|

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DSECONTROL[®] MONITORING WITH INTELLIGENCE.



DSE5210 & DSE5220

AUTO START & AUTO MAINS FAILURE CONTROL MODULES

DSE5210



The DSE5210 is an Automatic Start Control Module designed to automatically start and stop diesel and gas generating sets that include non electronic engines. The module also provides excellent engine monitoring and protection features.

The module has the ability to monitor under speed, over speed, charge failure, emergency stop, low oil pressure, high engine temperature, fail to start, fail to stop, under/over generator volts, over current, under/over generator frequency, low/high DC battery volts, low fuel alarm and loss of the speed sensing signal. The module displays fault conditions on the LCD display and via the LED indicators on the front.

The DSE5220 is an Automatic Mains Failure Control Module and includes all the features of the DSE5210 plus the ability to monitor a mains (utility) supply.

Upon detection of a mains (utility) failure the module automatically starts the generating set. Once the mains (utility) power has been restored it instructs the generating set to stop.

DSE5220



Both modules include RS232 or RS485 communications capabilities for linking to a PC, sending SMS messages and interfacing with new and existing building management systems.

FEATURES

- Automatic start
- Automatic mains (utility) failure detection (DSE5220 only)
- Automatic load transfer
- Configurable inputs
- Configurable outputs
- Configurable alarms & timers
- Digital inputs
- Analogue inputs
- Back-lit character LCD display
- Engine protection
- Front panel mounting
- PC configurable
- Front panel programming
- Remote monitoring
- RS232 or RS485 remote communications (to be specified on ordering)
- Modbus RTU
- Engine history event log
- LED alarm indication
- LCD alarm indication
- SMS messaging
- Hid till lit alarm icons
- Engine exercise mode
- Magnetic pick-up

BENEFITS

- Full integration into new and existing building management systems
- In-built engine diagnostics removes the requirement for service equipment
- License free PC software
- Modules help to improve the life cycle of engine starter motors
- On-site module configuration to match user requirements
- Remote module configuration using PC software
- Modules send SMS messages to engineers to notify specific engine problems (GSM Modem and SIM Card required)
- User-friendly set-up and button layout

OPERATION

The modules are operated using the front STOP, AUTO and MANUAL push buttons. The DSE5220 also includes a TEST button. An additional push button allows the user to scroll through the LCD display to view the instrumentation and event log.

CONFIGURATION

The modules can be configured using the front panel buttons or by using the DSE810 interface and PC software.

SPECIFICATION

DC SUPPLY

8 V to 35 V continuous

CRANKING DROPOUTS

Able to survive 0V for 50mS, providing the supply was at least 10V before dropout and supply recovers to 5V

START RELAY OUTPUT

16A DC supply at supply voltage

FUEL RELAY OUTPUT

16A DC at supply voltage

AUXILIARY RELAY OUTPUTS

5A DC at supply voltage

CHARGE FAIL/EXCITATION RANGE

0V to 35V

MAXIMUM OPERATING CURRENT

320mA at 12V, 215mA at 24V

MAXIMUM STANDBY CURRENT

175mA at 12V, 95mA at 24V

ALTERNATOR INPUT RANGE

15V (L-N) to 333V AC (L-N) absolute maximum

ALTERNATOR INPUT FREQUENCY

50-60 Hz at rated engine speed
(Minimum: 15V AC L-N)

MAGNETIC PICK-UP VOLTAGE INPUT RANGE

+/- 0.5V to 70V Peak

MAGNETIC INPUT FREQUENCY

10,000 Hz (max) at rated engine speed

MAINS (UTILITY) SENSING INPUT RANGE

(DSE5220 only)
15V (L-N) to 333V AC (L-N) absolute maximum

MAINS (UTILITY) SENSING INPUT FREQUENCY

(DSE5220 only)
50-60 Hz

MAINS (UTILITY) & GENERATOR LOADING RELAY OUTPUT

(DSE5220 only)
8A AC 250V

MODULE DIMENSIONS (WxH)

240mm x 172mm
9.4" x 6.8"

PANEL CUT-OUT (WxH)

220mm x 160mm
8.7" x 6.3"

MAXIMUM PANEL THICKNESS

8mm
0.3"



ALTERNATOR INFORMATION

| | |
|---------------------------------------|--|
| Manufacturer | Marathon / Mecc Alte |
| Design | Brushless single bearing, revolving field |
| Stator | 2/3 pitch |
| Rotor | Single bearing, flexible disc |
| Insulation System | Class H |
| Standard Temperature Rise | 125 -163°C Continuous |
| Exciter Type | Self Excited |
| Phase Rotation | A (U), B (V), C (W) |
| Alternator Cooling | Direct drive centrifugal blower fan |
| AC Waveform Total Harmonic Distortion | No load < 1.5%. Non distorting balanced linear load < 5% |
| Telephone Influence Factor (TIF) | <50 per NEMA MG1-22.43 |
| Telephone Harmonic Factor (THF) | <2% |

STANDARD ITEMS

- Mainline Circuit Breaker
- Generator Set mounted on Heavy Duty Steel Base Frame
- Anti-Vibration Pads between Engine/Alternator and Frame
- 8 to 10 Hour Base Fuel Tank (up to 600 kW)
- Forklift Pockets within Base Frame (up to 400 kW)
- Battery Charging Alternator

OPTIONAL ITEMS

| | |
|--------------------|---|
| ENGINE OPTIONS | <ul style="list-style-type: none"> • Engine Block Heater • Racor Fuel Water Separator • Oil Heater |
| ALTERNATOR OPTIONS | <ul style="list-style-type: none"> • Permanent Magnet Generator • Anti-Condensation Heater • Oversized Alternator (Motor Starting) |
| OTHER OPTIONS | <ul style="list-style-type: none"> • Sound Attenuated Enclosure with Critical Silencer (70 db at 7 meters) • Trailer (with or without fuel tank) • UL-142 Base Mounted Fuel Tank • Residential or Critical Grade Silencer |



WEIGHT AND DIMENSIONS



| SKID MOUNTED GENERATOR | | |
|------------------------|----|--------------------|
| DIMENSIONS (LxWxH) | mm | 2300 x 1000 x 1681 |
| DRY WEIGHT | kg | 1450 |



| SOUND ATTENUATED GENERATOR | | |
|--|----|--------------------|
| DIMENSIONS (LxWxH) | mm | 3321 x 1068 x 1732 |
| DRY WEIGHT | kg | 1850 |
| FEATURES AND BENEFITS OF ENCLOSURE: <ul style="list-style-type: none"> All enclosure parts are modular No welding to reduce corrosion Doors on both sides for easy maintenance All metal parts are powder coated <ul style="list-style-type: none"> Critical Exhaust Silencer Included Thermally insulated exhaust system Emergency stop located on exterior Easy Lifting and Moving | | |



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 Triton Power is a subsidiary of Americas Generators, Inc.

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