



Generators

REF. PC5206\_3Me.00

## MODEL | GSW30-45Perkins

- Liquid cooling Diesel engine.
- Control panel protected by lockable door
- Internal residential muffler.
- Detachable central lifting point.
- Complete with engine and battery liquids.
- Oil draining facilities.
- Baseframe capable to be moved with hand pallet truck.
- Canopy made in zincted steel profiles with green power coated layer.
- Fully bundled / Completely sealed baseframe as option.
- Rental kit as option (POWER ON RENT).



| MODEL                           |                             |          | GSW30P (*)          | GSW45P (*)          |
|---------------------------------|-----------------------------|----------|---------------------|---------------------|
| CODE                            |                             |          | SU260TPA            | TBA                 |
| Three phase                     | PRIME POWER PRP             | kVA (kW) | 30,5 (24,4)         | 43,0 (34,4)         |
|                                 | EMERGENCY POWER LTP         | kVA (kW) | 32,5 (26,0)         | 45,0 (36,0)         |
|                                 | Voltage                     | Volt     | 400                 | 400                 |
|                                 | Frequency                   | Hz       | 50                  | 50                  |
|                                 | Power factor                | Cos φ    | 0,8                 | 0,8                 |
|                                 | Fuel capacity               | Litres   | 68                  | 68                  |
|                                 | Autonomy (75/100% load PRP) | h        | 13,1 / 9,7          | 8,7 / 6,5           |
|                                 | Acoustic power              | LWA      | 90                  | 88                  |
|                                 | Acoustic pressure at 7m     | dB(A)    | 65                  | 63                  |
|                                 | Dimensions (LxWxH)          | mm       | 2.000 x 920 x 1.310 | 2.000 x 920 x 1.310 |
|                                 | Weight                      | kg       | 940                 | 1.007               |
| DIESEL ENGINE                   |                             |          | 1103A-33G           | 1103A-33G1          |
| Cooling system                  |                             |          | Water               | Water               |
| Speed                           |                             |          | 1.500               | 1.500               |
| Displacement                    |                             |          | 3.300               | 3.300               |
| Cylinders and disposition       |                             |          | 3 L                 | 3 L                 |
| Aspiration                      |                             |          | Natural             | Turbo               |
| Engine power PRP / LTP          |                             |          | 27,7 / 30,4         | 41,4 / 45,5         |
| Fuel consumption (75/100% load) |                             |          | 5,2 / 7,0           | 7,8 / 10,4          |
| Specific consumption PRP        |                             |          | 224                 | 238                 |
| Engine governor                 |                             |          | Mechanical          | Mechanical          |
| Electrical system (DC)          |                             |          | 12                  | 12                  |
| ALTERNATOR                      |                             |          | MeccAlte ECO 28 VL  | ECO 32 3S           |
| Insulation                      |                             |          | H                   | H                   |
| Mechanical degree protection    |                             |          | IP23                | IP21                |
| Voltage regulation              |                             |          | Electronic (±1%)    | Electronic (±1%)    |

(\*) Only for non mobile applications, according to COM II regulation.

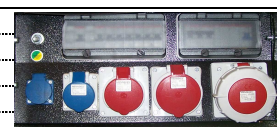
| MANUAL CONTROL PANEL (MCP)                                                                                                                                                                        |                            | GSW30P                                                                                                                                                                                                        | GSW45P |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| <p>Manual control panel, mounted on the genset and complete of: analogue instrumentation, control, protection of the generating set and sockets, protected through door with lockable handle.</p> | Instrumentation (analogue) | <ul style="list-style-type: none"> <li>• Generating set voltage (1 phase).</li> <li>• Generating set current (1 phase).</li> <li>• Hours-counter.</li> </ul>                                                  |        |
|                                                                                                                                                                                                   | Commands and others        | <ul style="list-style-type: none"> <li>• Start/stop selector switch with key (Glow plugs preheating function also included).</li> <li>• Emergency stop button installed on canopy side.</li> </ul>            |        |
|                                                                                                                                                                                                   | Protections with alarm     | <ul style="list-style-type: none"> <li>• Engine protections: Battery charger failure, low fuel level, low oil pressure, high engine temperature.</li> <li>• Earth Fault.</li> </ul>                           |        |
|                                                                                                                                                                                                   | Protections with shutdown  | <ul style="list-style-type: none"> <li>• Engine protections: Battery charger failure, low fuel level, low oil pressure, high engine temperature.</li> <li>• Circuit breaker protection: III poles.</li> </ul> |        |
|                                                                                                                                                                                                   | Output                     | 1 x 400V/32A 3P+N+T CE.<br>1 x 400V/16A 3P+N+T CE.<br>2 x 230V/16A 2P+T CE.<br>1 x 230V/16A SCHUKO.                                                                                                           |        |

| AUTOMATIC CONTROL PANEL (ACP)                                                                                                                                                                                                                                                                     |                                                            | GSW30P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | GSW45P |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
|  <p>Automatic control panel mounted on the genset, complete with digital control unit <b>AC03</b> for monitoring, control and protection of the generating set, protected through door with lockable handle.</p> | <b>Digital instrumentation</b> through AC-03 control unit. | <ul style="list-style-type: none"> <li>Generating set voltage (3 phases).</li> <li>Mains voltage.</li> <li>Generating set frequency.</li> <li>Generating set current (3 phases).</li> <li>Battery voltage.</li> <li>Power (kVA - kW - kVAR).</li> <li>Power factor Cos φ.</li> <li>Hours-counter.</li> <li>Engine speed r.p.m.</li> <li>Fuel level (%).</li> <li>Engine temperature (depending on model).</li> </ul>                                                                                                                                                             |        |
|                                                                                                                                                                                                                                                                                                   | <b>Commands and others</b>                                 | <ul style="list-style-type: none"> <li>Four operation modes: OFF - Manual starting - Automatic starting - Automatic test.</li> <li>Pushbutton for forcing Mains contactor or Genset contactor.</li> <li>Push-buttons: start/stop, fault reset, up/down/page/enter selection.</li> <li>Remote starting availability.</li> <li>DC system disconnection switch.</li> <li>Acoustic alarm.</li> <li>Automatic battery charger.</li> <li>RS232 Communication port.</li> <li>Setable PASSWORD for protection level.</li> <li>Emergency stop button installed on canopy side.</li> </ul> |        |
|                                                                                                                                                                                                                                                                                                   | <b>Protections with alarm</b>                              | <ul style="list-style-type: none"> <li>Engine protections: low fuel level, low oil pressure, high engine temperature.</li> <li>Genset protections: under/over voltage, overload, under/over frequency, starting failure, under/over battery voltage</li> </ul>                                                                                                                                                                                                                                                                                                                   |        |
|                                                                                                                                                                                                                                                                                                   | <b>Protections with shutdown</b>                           | <ul style="list-style-type: none"> <li>Engine protections: low fuel level, low oil pressure, high engine temperature,</li> <li>Genset protection: under/over voltage, overload, under/over battery voltage, battery charger failure.</li> <li>Circuit breaker protection: III poles.</li> <li>Earth fault included in the control unit.</li> </ul>                                                                                                                                                                                                                               |        |
|                                                                                                                                                                                                                                                                                                   | <b>Output</b>                                              | Plinth row for connection from ACP to LTS panel.<br>1 x 400V/32A 3P+N+T CE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |

| AUTOMATIC CONTROL PANEL (AMF)                                                                                                                                                                                                                                                                                |                                                           | GSW30P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | GSW45P |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
|  <p>Automatic control panel for automatic starting by Mains failure. Delivered loose from the genset, and complete with digital control unit <b>AC03</b> for monitoring, control and protection of the generating set.</p> | <b>Digital instrumentation</b> through AC03 control unit. | <ul style="list-style-type: none"> <li>Generating set voltage (3 phases).</li> <li>Mains voltage.</li> <li>Generating set frequency.</li> <li>Generating set current (3 phases).</li> <li>Battery voltage.</li> <li>Power (kVA - kW - kVAR).</li> <li>Power factor Cos φ.</li> <li>Hours-counter.</li> <li>Engine speed r.p.m.</li> <li>Fuel level (%).</li> <li>Engine temperature (depending on model).</li> </ul>                                                                                                      |        |
|                                                                                                                                                                                                                                                                                                              | <b>Commands and others</b>                                | <ul style="list-style-type: none"> <li>Four operation modes: OFF - Manual starting - Automatic starting - Automatic test.</li> <li>Pushbutton for forcing Mains contactor or Genset contactor.</li> <li>Push-buttons: start/stop, fault reset, up/down/page/enter selection.</li> <li>Emergency stop button.</li> <li>Remote starting inhibition availability.</li> <li>Acoustic alarm.</li> <li>Automatic battery charger.</li> <li>RS232 Communication port.</li> <li>Setable PASSWORD for protection level.</li> </ul> |        |
|                                                                                                                                                                                                                                                                                                              | <b>Change over contactors Mains/Genset</b>                | Three phase<br>IV poles - 45 A.                      IV poles - 90 A.                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |
|                                                                                                                                                                                                                                                                                                              | <b>Protections with alarm</b>                             | <ul style="list-style-type: none"> <li>Engine protections: low fuel level, low oil pressure, high engine temperature.</li> <li>Genset protections: under/over voltage, overload, under/over frequency, starting failure, under/over battery voltage.</li> </ul>                                                                                                                                                                                                                                                           |        |
|                                                                                                                                                                                                                                                                                                              | <b>Protections with shutdown</b>                          | <ul style="list-style-type: none"> <li>Engine protections: low fuel level, low oil pressure, high engine temperature,</li> <li>Genset protection: under/over voltage, overload, under/over battery voltage.</li> </ul>                                                                                                                                                                                                                                                                                                    |        |
|                                                                                                                                                                                                                                                                                                              | <b>Output</b>                                             | Plinth row for connection from pre-wired panel (mounted on the genset) to AMF panel.<br>Power cables connected to terminals board (internal).                                                                                                                                                                                                                                                                                                                                                                             |        |

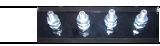
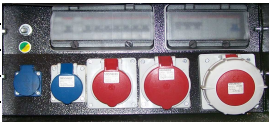
**GENSET SUPPLEMENTS (ONLY AVAILABLE WHEN ORDERED)**

|                    |                                                                                                                                                                                                       |                                                                                                                                |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| GENSET SUPPLEMENTS |  <b>AFP: AUTOMATIC FUEL TRANSFER PUMP.</b>                                                                         |                                                                                                                                |
|                    |  <b>DCC: DIFFERENT CANOPY COLOUR.</b>                                                                              |                                                                                                                                |
|                    |  <b>KRT: RENTAL KIT.</b> Complete of:                                                                              |                                                                                                                                |
|                    | <b>Battery switch.</b>                                                                                                                                                                                |                                                                                                                                |
|                    | <b>Fuel filter water separator.</b>                                                                                                                                                                   |                                                                                                                                |
|                    | <b>Three way valve.</b>                                                                                                                                                                               |                                                                                                                                |
|                    | <b>Earth rod.</b>                                                                                                                                                                                     |                                                                                                                                |
|                    | <b>Manual set folder</b>                                                                                                                                                                              |                                                                                                                                |
|                    | <b>External terminal board</b>                                                                                                                                                                        |                                                                                                                                |
|                    |  <b>SKB: SOCKETS KIT B WITH 5 SOCKETS.</b> with individual CB and Earth Fault protection                           | 1 x 400V/63A 3P+N+T CE.<br>1 x 400V/32A 3P+N+T CE.<br>1 x 400V/16A 3P+N+T CE.<br>1 x 230V/16A 2P+T CE.<br>1 x 230V/16A Schuko. |
|                    |  <b>PHS: COOLANT PREHEATING SYSTEM.</b>                                                                            |                                                                                                                                |
|                    |  <b>KPR: KIT PREMIUM</b> (Completely sealed baseframe+ alarm per liquid level in baseframe +Manual oil drain pump) |                                                                                                                                |



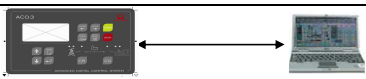
**CONTROL PANEL SUPPLEMENTS (ONLY AVAILABLE WHEN ORDERED)**

CONTROL PANEL SUPPLEMENTS

|                                                                                                                             |                               |                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MPF: MANUAL ANALOGUE CONTROL PANEL FULL OPTION.                                                                             |                               |                                                                                                                                                                                                                                                                                                               |
|                                            | Instrumentation<br>(analogue) | <ul style="list-style-type: none"><li>• Voltmeter with selector switch (3 phases).</li><li>• Frequency meter.</li><li>• Ammeter with selector switch (3 phases).</li><li>• Hours-counter.</li><li>• Fuel level indicator.</li><li>• Oil pressure indicator.</li><li>• Engine temperature indicator.</li></ul> |
|                                                                                                                             | Commands and others           | <ul style="list-style-type: none"><li>• Start/stop selector switch with key (single key system)</li><li>• Emergency stop button.</li></ul>                                                                                                                                                                    |
|                                                                                                                             | Protections with alarm        | <ul style="list-style-type: none"><li>• Engine protections: low fuel level, low oil pressure, high engine temperature, battery charger failure.</li><li>• Earth Fault.</li></ul>                                                                                                                              |
|                                                                                                                             | Protections with shutdown     | <ul style="list-style-type: none"><li>• Engine protection unit: low fuel level, low pressure oil, high engine temperature, battery charger failure.</li><li>• Circuit breaker protection: III poles.</li></ul>                                                                                                |
|                                                                                                                             | Output                        | <ul style="list-style-type: none"><li>• Power cables connection to terminals board (internal).</li></ul>                                                                                                                                                                                                      |
| Manual control panel mounted on the genset, with analogue instrumentation, and protected through door with lockable handle. |                               |                                                                                                                                                                                                                                                                                                               |
| ETB: EXTERNAL TERMINAL BOARD. Heavy duty copper bars of easy external power cables connection.                              |                               |                                                                                                                                                                                                                                                                                                               |
|                                          |                               |                                                                                                                                                                                                                                                                                                               |
|                                                                                                                             |                               |                                                                                                                                                                                                                                                                                                               |
|                                                                                                                             |                               |                                                                                                                                                                                                                                                                                                               |
|                                                                                                                             |                               |                                                                                                                                                                                                                                                                                                               |
|                                                                                                                             |                               |                                                                                                                                                                                                                                                                                                               |
| SKB: SOCKETS KIT B WITH 5 SOCKETS.<br>with individual CB and Earth Fault protection                                         | 1 x 400V/63A 3P+N+T CE.       |                                                                                                                                                                                                                                                                                                               |
|                                                                                                                             | 1 x 400V/32A 3P+N+T CE.       |                                                                                                                                                                                                                                                                                                               |
|                                                                                                                             | 1 x 400V/16A 3P+N+T CE.       |                                                                                                                                                                                                                                                                                                               |
|                                                                                                                             | 1 x 230V/16A 2P+T CE.         |                                                                                                                                                                                                                                                                                                               |
|                                                                                                                             | 1 x 230V/16A Schuko.          |                                                                                                                                                                                                                                                                                                               |
|                                          |                               |                                                                                                                                                                                                                                                                                                               |
| RSS: REMOTE START/STOP. Only for MCP                                                                                        |                               |                                                                                                                                                                                                                                                                                                               |
| TIF: IV POLES CIRCUIT BREAKER INSTEAD OF III POLES.                                                                         |                               |                                                                                                                                                                                                                                                                                                               |

**ACCESSORIES**

ACCESSORIES

| LOAD TRANSFER SWITCH PANEL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | GSW30P                                                                                                                                                                                           | GSW45P |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| <br>Load transfer switch panel built in a metal cabinet and supplied loose from the genset.                                                                                                                                                                                                                                                                                                                                                                                | Three phase                                                                                                                                                                                      |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IV poles - 45 A.                                                                                                                                                                                 |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IV poles - 90 A.                                                                                                                                                                                 |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Connections</b> <ul style="list-style-type: none"><li>• Plinth row for connection from ACP to LTS panel.</li><li>• Terminals board for power cables connection (Genset-Mains-Load).</li></ul> |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Protections</b> <ul style="list-style-type: none"><li>• Contactors mechanically and electrically interlocked.</li><li>• Emergency stop button.</li></ul>                                      |        |
| Note: Automatic control panel + LTS panel measures the Mains voltage and starts automatically the genset within few seconds in case of Mains failure. It transfers immediately the load again to the genset when the Mains voltage returns within the rated values.                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                  |        |
| <b>GSB: GALVANIZED SKIDS.</b> Heavy duty galvanized skid to be installed under the genset. Easily transportable with fork lift.                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              |        |
| <b>RCG: REMOTE CONTROL BY GSM KIT</b> (kit for genset management and control by remote PC; communication available by means of RS232 directly to PC or through GSM modem). Others remote monitoring system under request. These kits are only available on the automatic versions.                                                                                                                                                                                                                                                                           |                                                                                                             |        |
| <b>STR: SITE TRAILER.</b> Single axle.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                             |        |
| <b>RTR: ROAD TRAILER (only for Spanish territories).</b> Single axle.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                             |        |
| <b>HLT: HYDRAULIC LIGHTING TOWER COMPLETE WITH SITE TRAILER.</b> (Only per threephase generator)<br>It can be supplied with two different types of lights: <ul style="list-style-type: none"><li>• Lights of quartz-iodine halogen (6 x 1.500W) IP55. Lighting capacity: 200.000 lumen approx.</li><li>• Lights of metal halide (6 x 400W) IP55. Lighting capacity: 200.000 lumen approx.</li></ul> It is also equipped with 0,55kW electric motor, control panel (with circuit breaker protection) and hydraulic device to control the 9m extensible tower. |                                                                                                                                                                                                  |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                  |        |