



REF. PCS **26.00**

# MODEL | GSW15-22 Yanmar


- **YANMAR Diesel engine.**
- **Water cooling system.**
- **Internal residential muffler.**
- **Central lifting point.**
- **Baseframe capable to be moved with hand pallet truck.**
- **Complete with engine and battery liquids.**
- **Manual pump oil drain pipe.**
- **Fully bunded / Completly sealed baseframe**
- **Rental kit as option (POWER ON RENT).**




| MODEL                           |                              | GSW15Y                        | GSW22Y                      |                     |
|---------------------------------|------------------------------|-------------------------------|-----------------------------|---------------------|
| CODE                            |                              | SC150TYA                      | SC180TYA                    |                     |
| TECHNICAL FEATURES              | <b>PRIME POWER PRP</b>       | <b>kVA (kW)</b>               | <b>14,2 (11,4)</b>          | <b>18,6 (14,9)</b>  |
|                                 | <b>EMERGENCY POWER LTP</b>   | <b>kVA (kW)</b>               | <b>15,0 (12,0)</b>          | <b>20,5 (16,4)</b>  |
|                                 | Voltage                      | Volt                          | 400/231                     | 400/231             |
|                                 | Frequency                    | Hz                            | 50                          | 50                  |
|                                 | Power factor                 | Cos φ                         | 0,8                         | 0,8                 |
|                                 | Tank capacity                | Litres                        | 78                          | 78                  |
|                                 | Autonomy (100% load PRP)     | h                             | 20,0                        | 16,6                |
|                                 | Acustic power                | LWA                           | 95                          | 95                  |
|                                 | Acustic pressure at 7m       | dB(A)                         | 70                          | 70                  |
|                                 | Dimensions (LxWxH)           | mm                            | 1.800 x 830 x 1.300         | 1.800 x 830 x 1.300 |
|                                 | Weight                       | kg                            | 658                         | 738                 |
|                                 | <b>DIESEL ENGINE</b>         | <b>YANMAR</b>                 | <b>3TNV88-GGE</b>           | <b>4TNV88-GGE</b>   |
|                                 | Cooling system               | Type                          | Water                       | Water               |
|                                 | Speed                        | r.p.m.                        | 1.500                       | 1.500               |
|                                 | Displacement                 | c.c.                          | 1.642                       | 2.190               |
|                                 | Cyliders and disposition     | n° disp.                      | 3 L                         | 4 L                 |
|                                 | Aspiration                   | Type                          | Natural                     | Natural             |
|                                 | Engine power PRP             | kWm                           | 13,2                        | 17,7                |
|                                 | Fuel consumption (100% load) | l/h                           | 3,9                         | 4,7                 |
|                                 | Specific consumption PRP     | g/kWh                         | 245                         | 245                 |
| Engine governor (standard)      | Type                         | Mechanical                    | Mechanical                  |                     |
| Electrical system (DC)          | Volt                         | 12                            | 12                          |                     |
| <b>ALTERNATOR</b>               | <b>Brand - Type</b>          | <b>Mecc Alte - ECO 3 2L/4</b> | <b>Stamford - BCI 184 E</b> |                     |
| Insulation                      | Class                        | H                             | H                           |                     |
| Mechanical degree of protection | Type                         | IP23                          | IP23                        |                     |
| Voltage regulation              | Type                         | Electronic                    | Electronic                  |                     |


(1) Depending on availability, Stamford or MeccAlte alternator could be installed as variant, models BCI164C and ECO28 1L respectively.

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| MANUAL CONTROL PANEL (MCP) |  | GSW15Y   | GSW22Y |
|----------------------------|--|--|--------|
| MANUAL CONTROL PANEL (MCP) |  <p>Manual control panel mounted on the genset, complete with digital display plus engine protection unit for monitoring, control and protection of the generating set.</p> | <b>Digital instrumentation</b> through Digital control unit. <ul style="list-style-type: none"> <li>• Generating set voltage (3 phases).</li> <li>• Generating set frequency.</li> <li>• Generating set current (3 phases).</li> <li>• Battery voltage.</li> <li>• Power ( kVA).</li> <li>• Hours-counter.</li> <li>• Fuel level (%).</li> </ul> |        |
|                            |  | <b>Commands and others</b> <ul style="list-style-type: none"> <li>• Start/stop selector switch with key.</li> <li>• Emergency stop button.</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> </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>• Circuit breaker protection: IV poles.</li> <li>• Differential protection.</li> </ul>   |        |
|                            |  | <b>Output</b> <ul style="list-style-type: none"> <li>• Power cables connection to terminals board (external).</li> </ul>   |        |

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| AUTOMATIC CONTROL PANEL (ACP)  |   | GSW15Y   | GSW22Y |
|--|---|--|--------|
|  <p>Automatic control panel mounted on the genset, complete with digital control unit <b>AC01</b> for monitoring, control and protection of the generating set.</p> | <p><b>Digital instrumentation</b> through AC-01 control unit.</p> | <ul style="list-style-type: none"> <li>• Generating set voltage (3 phases).</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> </ul>   |        |
|  | <p><b>Commands and others</b></p>                                 | <ul style="list-style-type: none"> <li>• Selector switch with six positions: Automatic test - Automatic starting - Engine locked - Mains contactor forced - Manual starting - Genset contactor forced.</li> <li>• Push-buttons: start/stop, up/down selection, reset.</li> <li>• Emergency stop button.</li> <li>• Remote starting availability.</li> <li>• Acoustic alarm.</li> <li>• Automatic battery charger.</li> </ul> |        |
|  | <p><b>Protections with alarm</b></p>                              | <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, battery charger failure.</li> </ul>   |        |
|  | <p><b>Protections with shutdown</b></p>                           | <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: IV poles.</li> <li>• Differential protection.</li> </ul>   |        |
|  | <p><b>Ouput</b></p>   | <ul style="list-style-type: none"> <li>• Plinth row for connection from ACP to LTS panel.</li> <li>• Power cables connection to terminals board (external).</li> </ul>   |        |


| AUTOMATIC CONTROL PANEL (AMF)   |  | GSW15Y   | GSW22Y          |
|---|--|--|-----------------|
|  <p>Automatic control panel for automatic starting by Mains failure. Delivered loose from the genset, and complete with digital control unit <b>AC01</b> for monitoring, control and protection of the generating set.</p> | <p><b>Digital instrumentation</b> through AC01 control unit.</p> | <ul style="list-style-type: none"> <li>• Generating set voltage (3 phases).</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> </ul>   |                 |
|   | <p><b>Commands and others</b></p>                                | <ul style="list-style-type: none"> <li>• Selector switch with six positions: Automatic test - Automatic starting - Engine locked - Mains contactor forced - Manual starting - Genset contactor forced.</li> <li>• Push-buttons: start/stop, up/down selection, reset.</li> <li>• Emergency stop button.</li> <li>• Remote starting availability.</li> <li>• Acoustic alarm.</li> <li>• Automatic battery charger.</li> </ul> |                 |
|   | <p><b>Change over contactors Mains/Genset</b></p>                | IV poles - 20A.  | IV poles - 32A. |
|   | <p><b>Protections with alarm</b></p>                             | <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, battery charger failure.</li> </ul>   |                 |
|   | <p><b>Protections with shutdown</b></p>                          | <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> </ul>  |                 |
|   | <p><b>Output</b></p>   | <ul style="list-style-type: none"> <li>• Plinth row for connection from pre-wired panel (mounted on the genset) to AMF panel.</li> <li>• Power cables connected to terminals board (internal).</li> </ul>  |                 |

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






| MACHINE SUPPLEMENTS  | GSW15Y   | GSW22Y   |
|--|--|--|
| <ul style="list-style-type: none"> <li>• <b>AFP: AUTOMATIC FUEL TRANSFER PUMP.</b> Not available with <b>KRT</b>.</li> <li>• <b>DCC: DIFFERENT CANOPY COLOUR.</b></li> <li>• <b>KRT: RENTAL KIT.</b> Not allowed with PHS or AFP. Complete of:                             <ul style="list-style-type: none"> <li>• Battery switch.</li> <li>• Fuel filter water separator.</li> <li>• Three way valve.</li> <li>• Earth rod.</li> </ul> </li> </ul> |  |   |
| <b>Sockets kit.</b>  | <ul style="list-style-type: none"> <li>• 1 x 400V/32A 3P+N+T CE.</li> <li>• 1 x 230V/16A 2P+T CE.</li> <li>• 1 x 230V/16A Schuko.</li> </ul> | <ul style="list-style-type: none"> <li>• 1 x 400V/32A 3P+N+T CE.</li> <li>• 1 x 230V/16A 2P+T CE.</li> <li>• 1 x 230V/16A Schuko.</li> </ul> |
| <ul style="list-style-type: none"> <li>• <b>PHS: COOLANT PREHEATING SYSTEM.</b></li> </ul>   |  |  |

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

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|                                  |  |   |   |
|----------------------------------|--|---|---|
| <b>CONTROL PANEL SUPPLEMENTS</b> | <p><b>MAP: MANUAL ANALOGUE CONTROL PANEL.</b></p>  |   |   |
|                                  |  <p>Manual control panel mounted on the genset, with analogue instrumentation, and protected through door with lockable handle.</p> | <p><b>Instrumentation (analogue)</b></p>  | <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> |
|                                  |  | <p><b>Commands and others</b></p>   | <ul style="list-style-type: none"> <li>• Start/stop selector switch with key.</li> <li>• Emergency stop button.</li> </ul>  |
|                                  |  | <p><b>Protections with alarm</b></p>  | <ul style="list-style-type: none"> <li>• Engine protections: low fuel level, low oil pressure, high engine temperature, battery charger failure.</li> </ul>   |
|                                  |  | <p><b>Protections with shutdown</b></p>   | <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: IV poles.</li> <li>• Differential protection.</li> </ul>  |
|                                  | <p><b>Output</b></p>   | <ul style="list-style-type: none"> <li>• Power cables connected to terminals board (external).</li> </ul> |   |
|                                  | <p><b>RSS: REMOTE START/STOP.</b> Only for MAP.</p>  |   |   |

**ACCESSORIES**

|                           |  |   |   |               |               |                        |                        |
|---------------------------|--|---|---|---------------|---------------|------------------------|------------------------|
| <b>ACCESSORIES</b>        | <p><b>LOAD TRANSFER SWITCH PANEL.</b></p>  |   |   |               |               |                        |                        |
|                           |  <p>Load transfer switch panel built in a metal cabinet and supplied loose from the genset.</p>   | <p><b>Change over contactors</b></p>  | <table border="1"> <tr> <td style="text-align: center;"><b>GSW15Y</b></td> <td style="text-align: center;"><b>GSW22y</b></td> </tr> <tr> <td style="text-align: center;"><b>IV poles - 20A.</b></td> <td style="text-align: center;"><b>IV poles - 32A.</b></td> </tr> </table> | <b>GSW15Y</b> | <b>GSW22y</b> | <b>IV poles - 20A.</b> | <b>IV poles - 32A.</b> |
|                           |  | <b>GSW15Y</b>   | <b>GSW22y</b>   |               |               |                        |                        |
|                           |  | <b>IV poles - 20A.</b>  | <b>IV poles - 32A.</b>  |               |               |                        |                        |
|                           |  | <p><b>Connections</b></p>   | <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>  |               |               |                        |                        |
| <p><b>Protections</b></p> | <ul style="list-style-type: none"> <li>• Contactors mechanically and electrically interlocked.</li> <li>• Emergency stop button.</li> </ul>  |   |   |               |               |                        |                        |
|                           | <p>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.</p> |   |   |               |               |                        |                        |
|                           | <p><b>GSB: GALVANIZED SKIDS.</b> Heavy duty galvanized skid to be installed under the genset. Easily transportable with fork lift.</p>   |   |   |               |               |                        |                        |
|                           | <p><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). Available only on the automatic versions.</p>  |  |   |               |               |                        |                        |
|                           | <p><b>STR: SITE TRAILER.</b> Single axle.</p>  |  |   |               |               |                        |                        |
|                           | <p><b>RTR: ROAD TRAILER</b> (only for Spanish market). Single axle.</p>  |  |   |               |               |                        |                        |