Huawei’s GOSP Outside Plant cabinets provide the latest innovations for the protection of Access equipment in the harshest environments. This Green OSP cabinet system provides the latest power, noise and maintenance reducing features in a compact package.

The system starts as a series of cabinet modules. Each module can function as a stand-alone cabinet, or can be combined with other modules to create any configuration that is required. The modules just bolt together. Access ports on the sides align to allow cables to pass from module to module.

All modules feature double-walled construction on all five exterior walls. These outer shields provide passive cooling for the cabinet, greatly reducing solar load and use of active cooling equipment. The equipment itself is housed in a fully sealed, GR-487 internal chamber. The internal chamber is fully contained, so the outer shields can be removed and replaced without affecting the internal equipment.

The cabinet’s Roof fan cooling system provides substantial cooling capacity without the use of a dedicated cooling device. The fan draws outside air through the space between the double walls, turning the whole cabinet into a heat exchanger.

**GOSP Cabinet patent # 8,599,540**

**Geothermal patent # 8,749,976**

### Product Highlights

**Double-walled construction:**
Patented Cabinet construction provides a large air gap between all five outer wall panels and inner equipment chamber. Provides:

- Effective passive cooling solution
- Reduces solar load and cooling power requirements by 60-70%
- Enhances equipment life by 5-10%

**Isolated Inner chamber:**
Outer panels are not required to protect equipment

- Simple design Increases reliability
- Avoids costly equipment replacement

**Universal and Modular Design:**
Outer panels can be removed quickly without affecting equipment chamber

- Allows for easy and simple configurations/repair
- Avoids costly cabinet replacements due to external damage

**Additional cabinet sections can be added:**
Modular design allows new cabinet chambers to be ‘snapped’ onto existing cabinet, allowing for easy upgrades

- Reduces cabinet footprint
- Allows for sharing of AC and DC plants
- Accommodates future growth at a substantial cost savings

**Roof Cooling System:**
Roof-mounted fan pulls air between cabinet walls, providing substantial cooling capacity without expensive heat exchangers or other cooling devices.

- Economical
- Reduces acoustic noise below 60 dBA
- Allows cabinet to be installed in sensitive areas.

**Flexible Cooling Panel on rear of cabinet chambers:**
All cabinet chambers have a removable rear panel dedicated to additional cooling options. This allows for a variety of cooling solutions to be installed; in the factory or in the field. Cooling Panels are field replaceable.

**Options include:**
- heat exchanger, air conditioner, direct-air cooling and Huawei’s patented GEOTHERMAL cooling system

**GEOTHERMAL COOLING SYSTEM option:**
- Provides 10-fold reduction in cooling power required compared to a heat exchanger. Substantial energy cost savings (80-90%)
- Provides a 20 dBA noise reduction compared to most standard cooling solutions.
- Greatly increases fan life due to cooler operating conditions. Reduces maintenance cost.
- Provides Government Green credits bringing in additional +10% tax credits
## Huawei GOSP Cabinet – (many configurations are available)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Double Battery String Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cabinet Layout</td>
<td>Fully double-walled construction, all front access. 52” wide, 30” deep, 48” tall – low-profile design. Color: Beige Doors feature individual pin-in-hex ¼-turn locks with pad-lock holder.</td>
</tr>
<tr>
<td>Equipment Space</td>
<td>14 RU of 23” and 14 RU of 19” space in main space for active equipment.</td>
</tr>
<tr>
<td>AC Power</td>
<td>120/240 VAC 30 amp load center with 40KA surge protection with remote alarm. Includes GFCI convenience outlet.</td>
</tr>
<tr>
<td>DC Power</td>
<td>19&quot; Huawei High Efficiency Rectifier, 150 amps max output, plus one redundant module, for a total of 200 amps max (N+1)</td>
</tr>
<tr>
<td>Cooling</td>
<td>2300 watt total capacity. 1100 watt cooling capacity with roof fan cooling system. Optional two rear panel mounted 600 watt heat exchangers with integrated fan speed controller. Optional 1500 watt geothermal base</td>
</tr>
<tr>
<td>Battery Capacity</td>
<td>2 strings of 380AH batteries</td>
</tr>
<tr>
<td>Acoustic Noise</td>
<td>Less than 62 dBA, per GR-487</td>
</tr>
<tr>
<td>Compliance</td>
<td>Design to meet GR-487, Issue 4</td>
</tr>
<tr>
<td>Optional Equipment</td>
<td>Battery Heater, 16 port Fiber Distribution, 30 AMP Hubbell Generator Connector, AC Meter Base</td>
</tr>
<tr>
<td>Mounting Options</td>
<td>Pad.</td>
</tr>
</tbody>
</table>

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Huawei Technologies (USA)
5700 Tennyson Pkwy., Ste 500
Plano, TX 75024
Main: 214-919-6000

Huawei Technologies (Canada) CO., LTD.
19 Allstate Parkway,
Markham, Ontario, L3R 5A4
Main: 905-944-5000

General Information
www.huawei.com

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