

# Sigen Transformer Station

| SigenMVT                                 | 4000H1                                                        | 9000H1                            | 11000H1                           | Units |
|------------------------------------------|---------------------------------------------------------------|-----------------------------------|-----------------------------------|-------|
| Input                                    |                                                               |                                   |                                   |       |
| Compatible inverters                     | Sigen PV 500H1                                                |                                   |                                   |       |
| AC power                                 | 4,600 kVA@40°C                                                | 9,200 kVA@40°C                    | 11,040 kVA@40°C                   |       |
| Rated input voltage                      | 1,000                                                         |                                   |                                   | V     |
| LV main inputs (ACB)                     | 4,000 A / 1,000 V / 3P, 1 pcs                                 | 4,000 A / 1,000 V / 3P, 2 × 1 pcs | 4,000 A / 1,000 V / 3P, 2 × 1 pcs |       |
| LV main inputs (MCCB)                    | 400 A / 1,000 V / 3P, 10 pcs                                  | 400 A / 1,000 V / 3P, 2 × 10 pcs  | 400 A / 1,000 V / 3P, 2 × 12 pcs  |       |
| Output                                   |                                                               |                                   |                                   |       |
| Rated output voltage <sup>1</sup>        | 10 / 11 / 13.8 / 15 / 20 / 22 / 25 / 30 / 33 / 34.5 / 35 / 36 |                                   |                                   | kV    |
| Frequency                                | 50 / 60                                                       |                                   |                                   | Hz    |
| Transformer type                         | Oil-immersed, Conservator type                                |                                   |                                   |       |
| Transformer cooling type                 | ONAN                                                          |                                   | ONAF                              |       |
| Transformer tapping                      | ± 2 × 2.5%                                                    |                                   |                                   |       |
| Transformer oil type                     | Mineral Oil (PCB Free) / Natural Ester Oil                    |                                   |                                   |       |
| Transformer vector group                 | Dyll                                                          | Dyll-yll                          |                                   |       |
| Transformer min. peak efficiency index   | Tier 1 or Tier 2                                              |                                   |                                   |       |
| RMU type                                 | SF <sub>6</sub> / SF <sub>6</sub> -free <sup>2</sup>          |                                   |                                   |       |
| RMU transformer protection unit          | MV vacuum circuit breaker unit                                |                                   |                                   |       |
| RMU cable incoming / outgoing unit       | Direct cable unit or cable load break switch unit             |                                   |                                   |       |
| Auxiliary transformer                    | Dry type transformer, 5 kVA, li0                              |                                   |                                   |       |
| Protection                               |                                                               |                                   |                                   |       |
| Transformer monitoring & protection      | Oil level, Oil temperature, Oil pressure and buchholz         |                                   |                                   |       |
| Protection degree of MV & LV room        | IP54                                                          |                                   |                                   |       |
| Internal arcing fault                    | IAC A 20 kA 1s (default) / IAC A 25 kA 1s (optional)          |                                   |                                   |       |
| MV replay protection                     | 50 / 51, 50N / 51N                                            |                                   |                                   |       |
| LV overvoltage protection                | Type I+II                                                     |                                   |                                   |       |
| Anti-corrosion protection                | C4 / C5                                                       |                                   |                                   |       |
| Fan Failure Alarm                        | -                                                             | -                                 | Supported                         |       |
| Features <sup>3</sup>                    |                                                               |                                   |                                   |       |
| UPS                                      | Optional                                                      |                                   |                                   |       |
| MV surge arrester for transformer        | Optional                                                      |                                   |                                   |       |
| IMD                                      | Optional                                                      |                                   |                                   |       |
| 24 kV SF <sub>6</sub> -free RMU          | Optional                                                      |                                   |                                   |       |
| General Data <sup>4</sup>                |                                                               |                                   |                                   |       |
| Dimensions (W / H / D)                   | 6058 / 2896 / 2438 (20' HC Container)                         |                                   |                                   | mm    |
| Weight                                   | < 25                                                          | < 30                              |                                   | t     |
| Operating temperature range <sup>5</sup> | -25°C ~ 60°C (-13 °F ~ 140 °F )                               |                                   |                                   |       |
| Relative humidity range                  | 0% ~ 95%                                                      |                                   |                                   |       |
| Prefabrication                           | Supported                                                     |                                   |                                   |       |
| LV & MV room cooling                     | Without air-across for higher availability                    |                                   |                                   |       |
| Output voltage of auxiliary transformer  | 230                                                           |                                   |                                   | V     |

1. Rated output voltage from 10 kV to 35 kV, more available upon request.

2. 24kV SF<sub>6</sub>-free RMU is optional.

3. Extra expense needed for optional features which standard product doesn't contain, more options upon request.

4. For higher operating altitude, please consult with Sigenergy.

5. When ambient temperature 55°C, awning shall be equipped for SigenMVT series on site by customer.