

# SYTM Series

## 5KW-30KW



AC/DC built-in Type II Surge Protection



Support continuous data uploading with multiple monitoring interfaces including WEB, Mobile and API Access.



IP 65 rated, engineered to last with maximum flexibility, making it suitable for outdoor installation.

The SYT series of our company consists of three-phase inverters that infuse the best technology with an integrated streamlined case design. It is robust for residential and commercial spaces.

Best compatible with New Technology modules like Bifacial, Topcon, HJT

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\*Feature to be upgraded in the future. (T&C Apply)

# Three Phase Inverters – Technical Specifications

| Model                            | SYTM5KW                                                                                                              | SYTM6KW | SYTM8KW | SYTM10KW | SYTM12KW | SYTM15KW | SYTM17KW | SYTM20KW | SYTM25KW | SYTM30KW |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------|---------|---------|----------|----------|----------|----------|----------|----------|----------|
| PV Input                         |                                                                                                                      |         |         |          |          |          |          |          |          |          |
| Input Power                      | 6000W                                                                                                                | 7200W   | 9600W   | 12000W   | 14400W   | 18000W   | 20400W   | 24000W   | 30000W   | 36000W   |
| Max. Input Voltage               | 1100V                                                                                                                |         |         |          |          |          |          |          |          |          |
| Start-up Input Voltage           | 140V                                                                                                                 |         |         |          |          |          |          |          |          |          |
| Rated Input Voltage              | 600V                                                                                                                 |         |         |          |          |          |          |          |          |          |
| MPPT Operating Voltage Range     | 140V ~ 1000V                                                                                                         |         |         |          |          |          |          |          |          |          |
| Max. Input Current / MPPT        | 20 A                                                                                                                 |         |         |          |          | 40 A     | 40 A     |          |          |          |
| Max. Short-circuit Current       | 25 A                                                                                                                 |         |         |          |          | 50 A     | 50 A     |          |          |          |
| No. of Independent MPP Trackers  | 2                                                                                                                    |         |         |          |          |          |          |          |          |          |
| No. of Strings per MPP Tracker   | 1+1                                                                                                                  |         |         |          |          | 2+2      |          |          |          |          |
| AC Output                        |                                                                                                                      |         |         |          |          |          |          |          |          |          |
| Rated Grid Voltage               | 3P/N/PE, 230/400V                                                                                                    |         |         |          |          |          |          |          |          |          |
| Rated Output Power               | 5000W                                                                                                                | 6000W   | 8000W   | 10000W   | 12000W   | 15000W   | 17000W   | 20000W   | 25000W   | 30000W   |
| Rated Grid Frequency             | 45/55 Hz                                                                                                             |         |         |          |          |          |          |          |          |          |
| Rated Output Current             | 7.9A                                                                                                                 | 9.1A    | 12.1A   | 15.2A    | 18.2A    | 22.7A    | 25.8A    | 30.5A    | 37.9A    | 45.5A    |
| Max. Output Current              | 8.0A                                                                                                                 | 9.6A    | 12.8A   | 15.9A    | 19.1A    | 23.9A    | 27.1A    | 31.9A    | 39.9A    | 47.8A    |
| Power Factor                     | >0.99                                                                                                                |         |         |          |          |          |          |          |          |          |
| Total Harmonic Distortion [THDi] | <3%                                                                                                                  |         |         |          |          |          |          |          |          |          |
| EFFICIENCY                       |                                                                                                                      |         |         |          |          |          |          |          |          |          |
| max. efficiency                  | 98.6%                                                                                                                |         |         |          |          |          |          |          |          |          |
| MPPT efficiency                  | 99.8%                                                                                                                |         |         |          |          |          |          |          |          |          |
| PROTECTION                       |                                                                                                                      |         |         |          |          |          |          |          |          |          |
| Insulation Monitoring            | INTEGRATED                                                                                                           |         |         |          |          |          |          |          |          |          |
| Residual Current Monitoring      | INTEGRATED                                                                                                           |         |         |          |          |          |          |          |          |          |
| DC Reverse Polarity Protection   | INTEGRATED                                                                                                           |         |         |          |          |          |          |          |          |          |
| Anti-islanding Protection        | INTEGRATED                                                                                                           |         |         |          |          |          |          |          |          |          |
| AC Short-circuit Protection      | INTEGRATED                                                                                                           |         |         |          |          |          |          |          |          |          |
| AC Overcurrent Protection        | INTEGRATED                                                                                                           |         |         |          |          |          |          |          |          |          |
| AC Overvoltage Protection        | INTEGRATED                                                                                                           |         |         |          |          |          |          |          |          |          |
| Surge Protection                 | DC/AC: Type II                                                                                                       |         |         |          |          |          |          |          |          |          |
| DC Switch                        | Yes                                                                                                                  |         |         |          |          |          |          |          |          |          |
| AFCI                             | INTEGRATED                                                                                                           |         |         |          |          |          |          |          |          |          |
| GENERAL DATA                     |                                                                                                                      |         |         |          |          |          |          |          |          |          |
| Dimensions (WxHxD)               | 370*480*183.5mm                                                                                                      |         |         |          |          |          |          |          |          |          |
| Weight                           | 17kg                                                                                                                 |         |         |          | 20kg     |          |          |          |          | 22.5kg   |
| Cooling Method                   | Natural Convection Fan                                                                                               |         |         |          |          |          |          |          |          |          |
| Topology                         | Transformerless                                                                                                      |         |         |          |          |          |          |          |          |          |
| Noise Emission (typical)         | <30dB                                                                                                                |         |         |          | <55dB    |          |          |          |          |          |
| Max. Operating Altitude          | 3000m                                                                                                                |         |         |          |          |          |          |          |          |          |
| Operating Temperature Range      | - 25 + 60                                                                                                            |         |         |          |          |          |          |          |          |          |
| Humidity                         | 0 ~ 100% (No Condensation)                                                                                           |         |         |          |          |          |          |          |          |          |
| Protection Degree                | IP 65                                                                                                                |         |         |          |          |          |          |          |          |          |
| Internal Consumption at Night    | <3W                                                                                                                  |         |         |          |          |          |          |          |          |          |
| Monitoring                       | App / Website                                                                                                        |         |         |          |          |          |          |          |          |          |
| Communication Port               | WIFI / GPRS / RS485                                                                                                  |         |         |          |          |          |          |          |          |          |
| Display                          | LCD screen,Touch key, App, website, LED indicator                                                                    |         |         |          |          |          |          |          |          |          |
| CERTIFICATE                      |                                                                                                                      |         |         |          |          |          |          |          |          |          |
| IEC/BIS                          | (IS 16221 (Part 2) : 2015/IEC 62109-2: 2011 anIS 16169: 2019/<br>IEC 62116: 2014 and IS 17980:2022/ IEC 62891: 2020) |         |         |          |          |          |          |          |          |          |
| WARRANTY                         |                                                                                                                      |         |         |          |          |          |          |          |          |          |
| On Inverters and Accessories     | 10 Years                                                                                                             |         |         |          |          |          |          |          |          |          |