

# MOD 3~10KTL3-XH(BP)

- Battery Ready, Future-proof
- Two MPP trackers
- Type II SPD on the DC side
- Active arc protection
- 24h self-consumption monitoring



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P O W E R  
- I N G  
T O M O R R O W

**Preliminary**

| data sheet                                                                                                                                                                   | MOD 3000TL3-XH (BP)                | MOD 4000TL3-XH (BP) | MOD 5000TL3-XH (BP) | MOD 6000TL3-XH (BP) | MOD 7000TL3-XH (BP) | MOD 8000TL3-XH (BP) | MOD 9000TL3-XH (BP) | MOD 10KTL3-XH (BP) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|
| input (DC)                                                                                                                                                                   |                                    |                     |                     |                     |                     |                     |                     |                    |
| Max. recommended PV power (for STC modules)                                                                                                                                  | 6000W                              | 8000W               | 10000W              | 12000W              | 14000W              | 16000W              | 18000W              | 20000W             |
| Max. DC voltage                                                                                                                                                              | 1100V                              |                     |                     |                     |                     |                     |                     |                    |
| starting voltage                                                                                                                                                             | 160V                               |                     |                     |                     |                     |                     |                     |                    |
| nominal voltage                                                                                                                                                              | 600V                               |                     |                     |                     |                     |                     |                     |                    |
| MPPT voltage range                                                                                                                                                           | 140V-1000V                         |                     |                     |                     |                     |                     |                     |                    |
| Number of MPP trackers/strings pro MPP Tracker                                                                                                                               | 2 /1                               |                     |                     |                     |                     |                     |                     |                    |
| Max. input current per MPP Tracker                                                                                                                                           | 16A                                |                     |                     |                     |                     |                     |                     |                    |
| Max. short-circuit current pro MPP Tracker                                                                                                                                   | 20A                                |                     |                     |                     |                     |                     |                     |                    |
| input (DC battery)                                                                                                                                                           |                                    |                     |                     |                     |                     |                     |                     |                    |
| Compatible batteries                                                                                                                                                         | APX HV Battery System (5kWh-30kWh) |                     |                     |                     |                     |                     |                     |                    |
| operating voltage range                                                                                                                                                      | 600 V 950 V-                       |                     |                     |                     |                     |                     |                     |                    |
| Max. operating current                                                                                                                                                       | 11A                                |                     |                     |                     | 18.5A               |                     |                     |                    |
| Max. charging power                                                                                                                                                          | 6000W                              |                     |                     |                     | 10000W              |                     |                     |                    |
| Max. discharge power                                                                                                                                                         | 3300W                              | 4400W               | 5500W               | 6600W               | 7700W               | 8800W               | 9900W               | 11000W*            |
| output (AC)                                                                                                                                                                  |                                    |                     |                     |                     |                     |                     |                     |                    |
| AC rated power                                                                                                                                                               | 7000W                              | 4000W               | 5000W               | 6000W               | 7000W               | 8000W               | 9000W               | 10000W             |
| Max. AC apparent power                                                                                                                                                       | 3300VA                             | 4400VA              | 5500VA              | 6600VA              | 7700VA              | 8800VA              | 9900VA              | 11000VA            |
| AC nominal voltage (range* ) <sup>1</sup>                                                                                                                                    | 220V/380V, 230V/400V (340-440V)    |                     |                     |                     |                     |                     |                     |                    |
| AC mains frequency (range*) <sup>1</sup>                                                                                                                                     | 50/60Hz (45-55Hz/55-65Hz)          |                     |                     |                     |                     |                     |                     |                    |
| Max. output current                                                                                                                                                          | 5.0A                               | 6.7A                | 8.3A                | 10.0A               | 11.7A               | 13.3A               | 15.0A               | 16.7A              |
| Adjustable power factor                                                                                                                                                      | 0.8leading...0.8lagging            |                     |                     |                     |                     |                     |                     |                    |
| THDi                                                                                                                                                                         | <3%                                |                     |                     |                     |                     |                     |                     |                    |
| AC power connection type                                                                                                                                                     | 3W+N+PE                            |                     |                     |                     |                     |                     |                     |                    |
| Output (Backup* )2                                                                                                                                                           |                                    |                     |                     |                     |                     |                     |                     |                    |
| Max. apparent power                                                                                                                                                          | 3000VA                             | 4000VA              | 5000VA              | 6000VA              | 7000VA              | 8000VA              | 9000VA              | 10000VA            |
| AC nominal voltage                                                                                                                                                           | 230V/400V                          |                     |                     |                     |                     |                     |                     |                    |
| AC grid frequency                                                                                                                                                            | 50/60Hz                            |                     |                     |                     |                     |                     |                     |                    |
| efficiency                                                                                                                                                                   |                                    |                     |                     |                     |                     |                     |                     |                    |
| Max. efficiency                                                                                                                                                              | 98.3%                              | 98.3%               | 98.3%               | 98.3%               | 98.6%               | 98.6%               | 98.6%               | 98.6%              |
| European. Efficiency                                                                                                                                                         | 97.5%                              | 97.5%               | 97.5%               | 97.5%               | 98.1%               | 98.1%               | 98.1%               | 98.1%              |
| MPPT efficiency                                                                                                                                                              | 99.9%                              |                     |                     |                     |                     |                     |                     |                    |
| protective devices                                                                                                                                                           |                                    |                     |                     |                     |                     |                     |                     |                    |
| DC reverse polarity protection                                                                                                                                               | Yes                                |                     |                     |                     |                     |                     |                     |                    |
| DC switch                                                                                                                                                                    | Yes                                |                     |                     |                     |                     |                     |                     |                    |
| AC/DC surge protection                                                                                                                                                       | Type II / Type II                  |                     |                     |                     |                     |                     |                     |                    |
| Insulation resistance monitoring                                                                                                                                             | Yes                                |                     |                     |                     |                     |                     |                     |                    |
| AC short-circuit protection                                                                                                                                                  | Yes                                |                     |                     |                     |                     |                     |                     |                    |
| ground fault monitoring                                                                                                                                                      | Yes                                |                     |                     |                     |                     |                     |                     |                    |
| network monitoring                                                                                                                                                           | Yes                                |                     |                     |                     |                     |                     |                     |                    |
| anti-islanding protection                                                                                                                                                    | Yes                                |                     |                     |                     |                     |                     |                     |                    |
| residual current monitoring                                                                                                                                                  | Yes                                |                     |                     |                     |                     |                     |                     |                    |
| string error monitoring                                                                                                                                                      | Yes                                |                     |                     |                     |                     |                     |                     |                    |
| AFCI protection *3                                                                                                                                                           | Yes                                |                     |                     |                     |                     |                     |                     |                    |
| General data                                                                                                                                                                 |                                    |                     |                     |                     |                     |                     |                     |                    |
| Dimensions (L / W / H)                                                                                                                                                       | 425/387/147mm                      | 425/387/147mm       | 425/387/147mm       | 425/387/147mm       | 425/387/178mm       | 425/387/178mm       | 425/387/178mm       | 425/387/178mm      |
| Weight                                                                                                                                                                       | 12.5kg                             | 12.5kg              | 12.5kg              | 12.5kg              | 14kg                | 14kg                | 14kg                | 14kg               |
| operating temperature range                                                                                                                                                  | -25°C ... +60°C                    |                     |                     |                     |                     |                     |                     |                    |
| electricity consumption at night                                                                                                                                             | < 5.5W                             |                     |                     |                     |                     |                     |                     |                    |
| topology                                                                                                                                                                     | transformerless                    |                     |                     |                     |                     |                     |                     |                    |
| cooling                                                                                                                                                                      | Natural convection                 |                     |                     |                     |                     |                     |                     |                    |
| protection class                                                                                                                                                             | IP66                               |                     |                     |                     |                     |                     |                     |                    |
| Relative humidity                                                                                                                                                            | 0~100%                             |                     |                     |                     |                     |                     |                     |                    |
| altitude                                                                                                                                                                     | 4000m                              |                     |                     |                     |                     |                     |                     |                    |
| DC connection                                                                                                                                                                | H4/MC4(opt)                        |                     |                     |                     |                     |                     |                     |                    |
| AC connection                                                                                                                                                                | cable gland + OT terminal          |                     |                     |                     |                     |                     |                     |                    |
| display                                                                                                                                                                      | OLED+LED/WIFI+APP                  |                     |                     |                     |                     |                     |                     |                    |
| Interfaces: USB/RS485/WiFi/ GPRS/LAN/RF                                                                                                                                      | Yes/Yes/opt/opt/opt/opt            |                     |                     |                     |                     |                     |                     |                    |
| Warranty: 10 years                                                                                                                                                           | Yes                                |                     |                     |                     |                     |                     |                     |                    |
| CE, VDE0126, Greece, EN50549, C10/C11, VFR 2019, IEC62116, IEC61727, IEC 60068, IEC 61683, CEI0-21, N4105, TOR Generator G98/G99, G100, AS4777, UNE217001, UNE206007, PO12.2 |                                    |                     |                     |                     |                     |                     |                     |                    |

\*1 The AC voltage range and frequency range may vary depending on the country's power standard. All specifications are subject to change without further notice.

\*2 The backup function is for the special version with backup label in combination with the SYN 50-XH-30 unit.

\*3 The AFCI function must be enabled after installation if it is to be used.