



**KOYOE**

DATASHEET

## Three-Phase Grid-on Series

KY-3GT-10k0/12k0/15k0/17k0/20k0



### Advanced Performance

High-voltage inverter, 97.8% max efficiency. Provides higher charge & discharge rate when combines with Koyoe ESS \*Requires additional Battery and BMS.

# GT SERIES



### IP65 Protection

Various protection functions, natural cooling, longer lifetime. Compatible to any installation environment.



### Communication

Monitoring Platform via app and website. Supports online system upgrade.



### Customization

Combines with any other Koyoe ESS products. Supports series connection up to 6 inverters.



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## Three-Phase Grid-on Series

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| Model   | KY-3GT-10k0                                    | KY-3GT-12k0        | KY-3GT-15k0 | KY-3GT-17k0 | KY-3GT-20k0 |
|---|--|--------------------|-------------|-------------|-------------|
| <b>EFFICIENCY</b>                                 |  |                    |             |             |             |
| Maximum efficiency                                | 97.80%   | 98.20%             | 98.30%      | 98.43%      | 98.50%      |
| European efficiency                               | 98.20%   | 97.80%             | 97.90%      | 98%         | 98.10%      |
| MPPT efficiency                                   | 99.90%   | 99.90%             | 99.90%      | 99.90%      | 99.90%      |
| <b>DC SIDE</b>                                    |  |                    |             |             |             |
| Maximum allowable input strings power(W)          | 13000  | 15600              | 19500       | 22100       | 26000       |
| Rated input power(W)                              | 10300  | 12350              | 15400       | 17500       | 20520       |
| Maximum input voltage(V)                          | 1000   | 1000               | 1000        | 1000        | 1000        |
| Start voltage(V)                                  | 180  | 180                | 180         | 180         | 180         |
| Voltage range of MPPT(V)                          | 200 - 950                                      | 200 - 950          | 200 - 950   | 200 - 950   | 200 - 950   |
| Input number of strings(pcs)                      | 1+1  | 1+1                | 2+1         | 2+2         | 2+2         |
| Maximum input current(A)                          | 12/12  | 12/12              | 23/12       | 23/23       | 23/23       |
| Maximum DC short-circuit current(A)               | 15/15  | 15/15              | 28/15       | 28/28       | 28/28       |
| Minimum DC input voltage                          | 200  | 200                | 200         | 200         | 200         |
| <b>AC SIDE</b>                                    |  |                    |             |             |             |
| Rated output power(W)                             | 10000  | 12000              | 15000       | 17000       | 20000       |
| Maximum output power(VA)                          | 10000  | 12000              | 15000       | 17000       | 20000       |
| Rated grid voltage / grid voltage range           | 400 V (230 V) / 270 V-480V                     |                    |             |             |             |
| Type of power grid                                | 3L/N/PE  |                    |             |             |             |
| Frequency(Hz)                                     | 50Hz / 60Hz 45Hz-55Hz / 55Hz-65Hz              |                    |             |             |             |
| Total harmonic of output current                  | <3%  |                    |             |             |             |
| DC component                                      | <0.5% * In                                     |                    |             |             |             |
| Power factor                                      | 0.99 / 0.8 lead - 0.8 lag (adjustable)         |                    |             |             |             |
| Rated Output Current                              | 15.2A  | 17.5A              | 23A         | 25A         | 31A         |
| <b>PROTECT</b>                                    |  |                    |             |             |             |
| DC switch   | Integrate                                      |                    |             |             |             |
| Over current protection / Island protection       | Integrate                                      |                    |             |             |             |
| Surge protection                                  | DC class II / AC class III                     |                    |             |             |             |
| DC reverse connection protection                  | Integrate                                      |                    |             |             |             |
| Leakage current protection / Isulation protection | Integrate                                      |                    |             |             |             |
| Over/undervoltage protection                      | Integrate                                      |                    |             |             |             |
| <b>BASIC PARAMETER INFORMATION</b>                |  |                    |             |             |             |
| Dimensions (W*D*H)(mm)                            | 505*200*414                                    |                    |             |             |             |
| Weight (kg)                                       | 16   | 16                 | 17          | 18          | 18          |
| Protection level                                  | IP65   |                    |             |             |             |
| Installation mode                                 | Wall hanging                                   |                    |             |             |             |
| Cooling mode                                      | Natural Convection                             | Natural Convection | Forced-air  | Forced-air  | Forced-air  |
| Topological structure                             | No transformer                                 |                    |             |             |             |
| Night consumption                                 | <0.5 W   |                    |             |             |             |
| Working temperature                               | -25°C - 60°C (> 45°C derating)                 |                    |             |             |             |
| Relative humidity                                 | 0-95%  |                    |             |             |             |
| Altitude  | <3500 m, over 2000 m derating                  |                    |             |             |             |
| Display mode                                      | LCD  |                    |             |             |             |
| Communication                                     | RS485/WIFI                                     |                    |             |             |             |
| AC/DC connection                                  | Quick plug type                                |                    |             |             |             |
| Warranty  | 5/10years                                      |                    |             |             |             |
| <b>STANDARD</b>                                   |  |                    |             |             |             |
| Safety standards                                  | IEC62116, IEC61727                             |                    |             |             |             |
| EMC standards                                     | IEC61000-6-2, IEC 61000-6-3                    |                    |             |             |             |
| Grid standards                                    | AS/NZS 4777.2, NRS 097-2-1:2017,NBT 32004-2018 |                    |             |             |             |
| <b>COUNTRY</b>                                    |  |                    |             |             |             |
| Country Of Manufacture                            | China  |                    |             |             |             |