

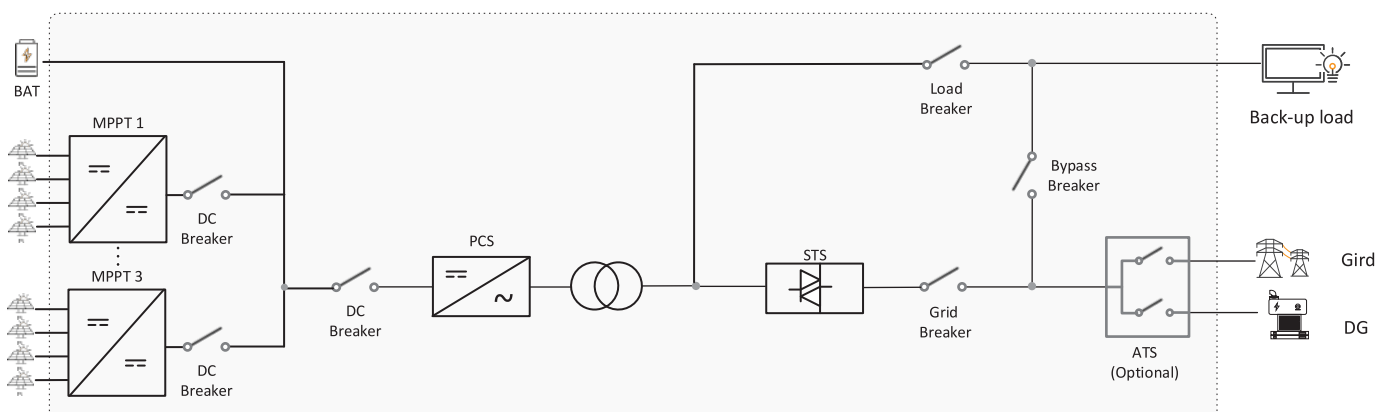
# Microgrid Hybrid Inverter

## Neptune-H125T

The all-in-one Hybrid inverter is customized for small C&I microgrid hybrid scenarios, which features a built-in isolation transformer, PCS, MPPT module and STS, to realize the on/off grid application.

## Features

- Multiple power integration All-in-one
- Seamless on/off grid transfer within 10ms
- DC-coupled with PV and battery
- Built-in isolation transformer
- Modular design for easy maintenance
- IP54 design



| DC(PV Input)                                                    |                                                        |
|-----------------------------------------------------------------|--------------------------------------------------------|
| PV voltage range                                                | 150V-Vbat(min), maximum 1000V                          |
| Max. PV Power                                                   | 180kW(60kW*3)                                          |
| Num. of MPPT's per module                                       | 4                                                      |
| Rated current per MPPT                                          | 45A                                                    |
| Rated power per MPPT                                            | 15kW                                                   |
| DC(BAT Input)                                                   |                                                        |
| Battery voltage Range                                           | 600-1000V(Min.680V for off-grid)                       |
| Max charge/discharge current                                    | 216A                                                   |
| Max charge/discharge power                                      | 125kW                                                  |
| AC(on-grid)                                                     |                                                        |
| Rated output apparent power                                     | 125kVA                                                 |
| Rated output current                                            | 182A                                                   |
| Max. input apparent power                                       | 250kVA                                                 |
| Max. input current                                              | 364A                                                   |
| Rated voltage                                                   | 400V                                                   |
| Rated frequency                                                 | 50/60Hz                                                |
| PF                                                              | >0.99 (-0.8~0.8)                                       |
| THDi                                                            | <3%(@rated power)                                      |
| AC connection                                                   | 3W+N+PE                                                |
| AC(off-grid)                                                    |                                                        |
| Rated output power                                              | 125kW(@resistive load)                                 |
| Rated output voltage                                            | 400V                                                   |
| Rated output current                                            | 182A                                                   |
| Rated frequency                                                 | 50/60Hz                                                |
| THDu                                                            | <3%(@linear load)                                      |
| Overload capability                                             | 120%-1min                                              |
| System data                                                     |                                                        |
| Build-in transformer                                            | Transformer & STS                                      |
| IP level                                                        | IP54                                                   |
| Transfer between on/off grid with STS                           | <10ms                                                  |
| Cooling method                                                  | Intelligent air cooling                                |
| Operating temperature range                                     | -40~60°C (45~60°C derating, derating factor 5%/°C)     |
| Relative humidity                                               | 0~95% (no condensation)                                |
| Maximum operating altitude                                      | 4000m (derating above 3000m,derating factor 1%/100m)   |
| Lightning protection                                            | Type II for AC&PV                                      |
| Communication                                                   | RS485/CAN for BMS, RS485 for meter                     |
| Remote communication                                            | WLAN/4G/Ethernet                                       |
| Display                                                         | LED+LCD+APP                                            |
| Dimensions(W*D*H)                                               | 1200*1100*2100mm                                       |
| Weight                                                          | 1350kg                                                 |
| Certificate                                                     |                                                        |
| IEC 62109-1、IEC 62477-1、IEC 61000-6-2、IEC 61000-6-4、NRS 097-2-1 |                                                        |
| Expand models                                                   |                                                        |
| Expand models                                                   | Neptune-H125T-SA2<br>Neptune-H125T-A2<br>Neptune-H125T |