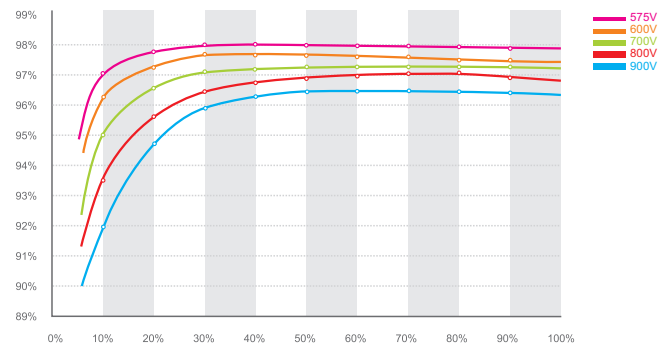




## Leading - edge Technology

- ▶ DC input voltage up to 1000V
- ▶ Maximum efficiency of 98%
- ▶ Internal DC switch
- ▶ Transformerless
- ▶ Compact design
- ▶ Multi MPP controller
- ▶ MTL - String
- ▶ Bluetooth / RF technology / Wi-Fi
- ▶ Sound control
- ▶ Easy installation
- ▶ Comprehensive Growatt warranty program

20k efficiency



## GROWATT NEW ENERGY TECHNOLOGY Co.,LTD

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|   | Growatt 10000UE                 | Growatt 12000UE                 | Growatt 18000UE                 | Growatt 20000UE                 |
|---|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| <b>Input Data</b>   |                                 |                                 |                                 |                                 |
| Max. DC power   | 10500W                          | 12500W                          | 18700W                          | 20800W                          |
| Max DC voltage  | 1000V                           | 1000V                           | 1000V                           | 1000V                           |
| Start Voltage   | 350V                            | 350V                            | 350V                            | 350V                            |
| PV voltage range  | 180V - 1000V                    | 180V - 1000V                    | 180V - 1000V                    | 180V - 1000V                    |
| MPP voltage range / DC nominal voltage                        | 300V - 1000V / 600V             | 300V - 1000V / 600V             | 300V - 1000V / 600V             | 300V - 1000V / 600V             |
| Full load voltage range                                       | 400V - 800V                     | 400V - 800V                     | 400V - 800V                     | 400V - 800V                     |
| Number of independent MPP trackers/strings per MPP tracker    | 2/2                             | 2/2                             | 2/3                             | 2/3                             |
| Max. input current  | 15A / 15A                       | 17A / 17A                       | 23A / 23A                       | 26A / 26A                       |
| Max. input current per string                                 | 20A                             | 20A                             | 20A                             | 20A                             |
| <b>Output (AC)</b>  |                                 |                                 |                                 |                                 |
| Rated AC output power   | 10KW                            | 12KW                            | 18KW                            | 20KW                            |
| Max. AC power   | 10KVA                           | 12KVA                           | 18KVA                           | 20KVA                           |
| Max. output current   | 16A                             | 19A                             | 28.6A                           | 32A                             |
| AC voltage range; range                                       | 3/N/PE, 230V/400V<br>184 - 275V | 3/N/PE, 230V/400V<br>184 - 275V | 3/N/PE, 230V/400V<br>184 - 275V | 3/N/PE, 230V/400V<br>184 - 275V |
| AC grid frequency ; range                                     | 50/60Hz;<br>44-55Hz/54-65Hz     | 50/60Hz;<br>44-55Hz/54-65Hz     | 50/60Hz;<br>44-55Hz/54-65Hz     | 50/60Hz;<br>44-55Hz/54-65Hz     |
| Adjustable displacement power factor                          | 0.8 leading -0.8lagging         | 0.8 leading -0.8lagging         | 0.8 leading -0.8lagging         | 0.8 leading -0.8lagging         |
| THDI  | <3%                             | <3%                             | <3%                             | <3%                             |
| AC connection   | Three phase                     | Three phase                     | Three phase                     | Three phase                     |
| <b>Efficiency</b>   |                                 |                                 |                                 |                                 |
| Max. efficiency   | 98%                             | 98%                             | 98%                             | 98%                             |
| Euro - eta  | 97.5%                           | 97.5%                           | 97.5%                           | 97.5%                           |
| MPPT efficiency   | 99.5%                           | 99.5%                           | 99.5%                           | 99.5%                           |
| <b>Protection Devices</b>                                     |                                 |                                 |                                 |                                 |
| DC reverse polarity protection                                | yes                             | yes                             | yes                             | yes                             |
| DC switch for each MPPT                                       | yes                             | yes                             | yes                             | yes                             |
| Output AC overcurrent protection                              | yes                             | yes                             | yes                             | yes                             |
| Output AC overvoltage Protection - Varistor                   | yes                             | yes                             | yes                             | yes                             |
| Ground fault monitoring                                       | yes                             | yes                             | yes                             | yes                             |
| Grid monitoring   | yes                             | yes                             | yes                             | yes                             |
| Integrated all-pole sensitive leakage current monitoring unit | yes                             | yes                             | yes                             | yes                             |
| <b>General Data</b>   |                                 |                                 |                                 |                                 |
| Dimensions (W / H / D) in mm                                  | 740/490/235                     | 740/490/235                     | 740/570/235                     | 740/570/235                     |
| Weight  | 41KG                            | 41KG                            | 60KG                            | 60KG                            |
| Operating temperature range                                   | -25 °C ... +60 °C               | -25 °C ... +60 °C               | -25 °C ... +60 °C               | -25 °C ... +60 °C               |
| Noise emission (typical)                                      | ≤ 55 dB(A)                      | ≤ 55 dB(A)                      | ≤ 55 dB(A)                      | ≤ 55 dB(A)                      |
| Self-consumption night  | < 0.5W                          | < 0.5W                          | < 0.5W                          | < 0.5W                          |
| Topology  | Transformerless                 | Transformerless                 | Transformerless                 | Transformerless                 |
| Cooling concept   | Smart cooling                   | Smart cooling                   | Smart cooling                   | Smart cooling                   |
| Environmental Protection Rating                               | IP 65                           | IP 65                           | IP 65                           | IP 65                           |
| Altitude  | 2000m without derating          | 2000m without derating          | 2000m without derating          | 2000m without derating          |
| Relative Humidity   | 0~95%                           | 0~95%                           | 0~95%                           | 0~95%                           |
| <b>Features</b>   |                                 |                                 |                                 |                                 |
| DC connection   | H4/MC4(opt)                     | H4/MC4(opt)                     | H4/MC4(opt)                     | H4/MC4(opt)                     |
| AC connection   | Screw terminal                  | Screw terminal                  | Screw terminal                  | Screw terminal                  |
| Display   | LCD                             | LCD                             | LCD                             | LCD                             |
| Interfaces: RS232/R485/Bluetooth/RFWi-Fi                      | yes / yes / opt / opt / opt     | yes / yes / opt / opt / opt     | yes / yes / opt / opt / opt     | yes / yes / opt / opt / opt     |
| Warranty:5 years / 10 years                                   | yes / opt                       | yes / opt                       | yes / opt                       | yes / opt                       |
| <b>Certificates and Approvals</b>                             |                                 |                                 |                                 |                                 |