

Inverter stringa trifase

3- 25 kW serie



ATON

~~~~~ SERIES



**UNIBODY**  
One-piece  
Aluminum Housing

**Max.  
1.5**

**PV OVERSIZE**  
1,5 Times PV Oversize

**Max.  
1100v**

**DC 1100V**  
Max. DC 1100V



**CONFIGURATION**  
Veloce & facile  
Config. via Wi-Fi

Monitoraggio a livello di stringa

Multi MPPT disegno

Compensazione della potenza attiva e reattiva

Nessun design dei fan

Installazione facile e veloce

Potenza di alta qualità

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| <b>PV Input Data</b>                 | <b>BNT012KTL</b>                                                                                                             | <b>BNT013KTL</b> | <b>BNT015KTL</b> | <b>BNT017KTL</b> | <b>BNT020KTL</b> | <b>BNT025KTL</b> |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|------------------|------------------|------------------|
| Potenza d'ingresso max. (kWt)        | 18000                                                                                                                        | 19500            | 22500            | 25500            | 30000            | 37500            |
| MTensione FV max. (V)                | 1100                                                                                                                         |                  |                  |                  |                  |                  |
| Gamma MPPT (V)                       | 150 - 1000                                                                                                                   |                  |                  |                  |                  |                  |
| Gamma MPPT completa (V)              | 500 - 850                                                                                                                    |                  |                  |                  |                  |                  |
| Tensione normale (V)                 | 620                                                                                                                          |                  |                  |                  |                  |                  |
| Tensione di avvio (V)                | 150                                                                                                                          |                  |                  |                  |                  |                  |
| Corrente d'ingresso max. (A)         | 15 x 2                                                                                                                       |                  | 20 + 32          |                  | 32 x 2           |                  |
| Corrente di corto circuito max. (A)  | 25 x 2                                                                                                                       |                  | 30 + 48          |                  | 48 x 2           |                  |
| N. di MPPT / N. di stringhe FV       | 2/2                                                                                                                          |                  | 2/3              |                  | 2/4              |                  |
| Tipo connettore                      | MC4                                                                                                                          |                  |                  |                  |                  |                  |
| <b>AC Output Data</b>                | <b>BNT012KTL</b>                                                                                                             | <b>BNT013KTL</b> | <b>BNT015KTL</b> | <b>BNT017KTL</b> | <b>BNT020KTL</b> | <b>BNT025KTL</b> |
| Potenza max. (kVA)                   | 13200                                                                                                                        | 14300            | 16500            | 18700            | 22000            | 27500            |
| Potenza nominale (kVA)               | 12000                                                                                                                        | 13000            | 15000            | 17000            | 20000            | 25000            |
| Corrente max. (A)                    | 21.5                                                                                                                         | 22               | 27               | 30               | 32               | 40               |
| Potenza nominale (V)                 | 3P+N+PE / 3P+PE 230/400                                                                                                      |                  |                  |                  |                  |                  |
| Grid Voltage Range                   | 260Vac-519Vac (according to local standard)                                                                                  |                  |                  |                  |                  |                  |
| Frequenza nominale AC (Hz)           | 50/60                                                                                                                        |                  |                  |                  |                  |                  |
| Gamma frequenza (Hz)                 | 45-55/55-65 (according to local standard)                                                                                    |                  |                  |                  |                  |                  |
| Output Power Factor                  | 1 default (adjustable from 0.8 leading to 0.8 lagging)                                                                       |                  |                  |                  |                  |                  |
| THD tensione (%)                     | <3%                                                                                                                          |                  |                  |                  |                  |                  |
| <b>Efficiency</b>                    | <b>BNT012KTL</b>                                                                                                             | <b>BNT013KTL</b> | <b>BNT015KTL</b> | <b>BNT017KTL</b> | <b>BNT020KTL</b> | <b>BNT025KTL</b> |
| Max. Efficiency                      | 98.70%                                                                                                                       |                  |                  | 98.75%           |                  |                  |
| Euro Efficiency                      | 98.23%                                                                                                                       |                  |                  | 98.35%           |                  |                  |
| <b>Protection</b>                    | <b>BNT012KTL</b>                                                                                                             | <b>BNT013KTL</b> | <b>BNT015KTL</b> | <b>BNT017KTL</b> | <b>BNT020KTL</b> | <b>BNT025KTL</b> |
| PV Reverse Polarity Protection       | YES                                                                                                                          |                  |                  |                  |                  |                  |
| PV Insulation Resistance Detection   | YES                                                                                                                          |                  |                  |                  |                  |                  |
| AC Short Circuit Protection          | YES                                                                                                                          |                  |                  |                  |                  |                  |
| AC Over Current Protection           | YES                                                                                                                          |                  |                  |                  |                  |                  |
| AC Over Voltage Protection           | YES                                                                                                                          |                  |                  |                  |                  |                  |
| Anti-Islanding Protection            | YES                                                                                                                          |                  |                  |                  |                  |                  |
| Residual Current Detection           | YES                                                                                                                          |                  |                  |                  |                  |                  |
| Over Temperature Protection          | YES                                                                                                                          |                  |                  |                  |                  |                  |
| Integrated DC switch                 | YES                                                                                                                          |                  |                  |                  |                  |                  |
| Surge Protection                     | Integrated (Type II)                                                                                                         |                  |                  |                  |                  |                  |
| Smart IV Curve Scanning              | YES                                                                                                                          |                  |                  |                  |                  |                  |
| Quick Arc Fault Circuit Interruption | Optional                                                                                                                     |                  |                  |                  |                  |                  |
| <b>General Data</b>                  | <b>BNT012KTL</b>                                                                                                             | <b>BNT013KTL</b> | <b>BNT015KTL</b> | <b>BNT017KTL</b> | <b>BNT020KTL</b> | <b>BNT025KTL</b> |
| Dimensions (H x W x D, mm)           | 510 x 370 x 192                                                                                                              |                  |                  | 535 x 370 x 192  |                  |                  |
| Weight (kg)                          | 15                                                                                                                           | 17               |                  | 19               |                  |                  |
| Protection Degree                    | IP65                                                                                                                         |                  |                  |                  |                  |                  |
| Enclosure Material                   | Aluminum                                                                                                                     |                  |                  |                  |                  |                  |
| Ambient Temperature Range ( ) °C     | -25 to 60                                                                                                                    |                  |                  |                  |                  |                  |
| Humidity Range                       | 0 - 100%                                                                                                                     |                  |                  |                  |                  |                  |
| Topology                             | Transformerless                                                                                                              |                  |                  |                  |                  |                  |
| Communication Interface              | RS485 / WiFi / Wire Ethernet / GPRS (optional)                                                                               |                  |                  |                  |                  |                  |
| Cooling Concept                      | Intelligent fan cooling                                                                                                      |                  |                  |                  |                  |                  |
| Noise Emission (db)                  | <40                                                                                                                          |                  |                  |                  |                  | <51              |
| Night Power Consumption (W)          | <1                                                                                                                           |                  |                  |                  |                  |                  |
| Max. Operation Altitude (m)          | ≤4000                                                                                                                        |                  |                  |                  |                  |                  |
| <b>Certifications and Standards</b>  | <b>BNT012KTL</b>                                                                                                             | <b>BNT013KTL</b> | <b>BNT015KTL</b> | <b>BNT017KTL</b> | <b>BNT020KTL</b> | <b>BNT025KTL</b> |
| EMC Standard                         | EN/IEC 61000-6-2, EN/IEC 61000-6-3, EN61000-3-2, EN61000-3-3, EN61000-3-11, EN61000-3-12                                     |                  |                  |                  |                  |                  |
| Safety Standard                      | IEC 60068, UL1741, EN62109                                                                                                   |                  |                  |                  |                  |                  |
| Grid-connection                      | CEI-021, IEEE1547, CSA C22, EN50549, VDE4105, VDE0126, RD1699, ABNT NBR16149 & 16150, AS4777.2, NB/T32004, G98/G99, IEC61727 |                  |                  |                  |                  |                  |