# CERTIFICATE OF CONFORMITY
## *CERTIFICATO DI CONFORMITÀ*

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| Issued to:<br>*Rilasciato a:* | Afore New Energy Technology (Shanghai) Co., Ltd.<br>Building 7, No.333 Wanfang Rd, Minhang District, Shanghai, China |
| For the product:<br>*Tipo prodotto:* | PV Grid interactive inverter |
| Trade name:<br>*Marchio:* | Afore |
| Type/Model:<br>*Riferimento modello:* | BNT030KTL, BNT036KTL, BNT040KTL, BNT050KTL, BNT060KTL |
| Ratings:<br>*Dati di targa:* | See Annex |
| Manufactured by:<br>*Costruttore:* | Afore New Energy Technology (Shanghai) Co., Ltd.<br>Building 7, No.333 Wanfang Rd, Minhang District, Shanghai, China |
| Requirements:<br>*Requisiti:* | CEI 0-16:2022-03<br>*Regola tecnica di riferimento per la connessione di Utenti attivi e passivi alle reti* AT ed MT *delle imprese distributrici di energia elettrica* |

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in a confidential file no. 6160543.50
*Il presente certificato è rilasciato a causa di un esame da parte di DEKRA, i cui risultati sono riportati in un file riservato n. 6160543.50*

The examination has been carried out on one single specimen or several specimens of the product, submitted by the manufacturer. The certificate does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.
*Il sottoscritto dichiara che il prodotto di cui sopra è conforme ai requisiti tecnici menzionati. Questo attestato di conformità è rilasciato sulla base dei risultati di prova riferiti nel rapporto sopra menzionato.*
*La valutazione non include una verifica della produzione di serie né del luogo di produzione.*

Shanghai, 30 June 2023 Certificate Number: 6160543.01COC
It expires at the latest on: 30 June 2028

DEKRA Testing and Certification (Shanghai) Ltd.

Cliff Lin
Certification Manager

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Accreditation of the certification body by IAS according to ISO/IEC 17065 for products. PCA-141
Accreditation is valid in the areas of certification mentioned in the certificate.

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# Annex

Document no. : 6160543.01COC

Ratings:
*Dati di targa:*

| Specifications table | | | | | |
|---|---|---|---|---|---|
| **Model** | BNT030KTL | BNT036KTL | BNT040KTL | BNT050KTL | BNT060KTL |
| ***PV input*** | | | | | |
| Max PV power (W) | 45000 | 54000 | 60000 | 75000 | 90000 |
| Vmax PV (Vdc) (absolute Max.) | 1100 | 1100 | 1100 | 1100 | 1100 |
| Isc PV (absolute Max.) (A) | 48 x 2 | 48 x 3 | 48 x 3 | 48 x 3 | 48 x 4 |
| Number MPP trackers | 2 | 3 | 3 | 3 | 4 |
| Number input strings | 2/3 | 2/2/2 | 2/2/2 | 2/2/3 | 2/2/2/2 |
| Max. PV input current / strings (A) | 38 x 2 | 38 x 3 | 38 x 3 | 40 x 3 | 38 x 4 |
| MPPT voltage range (Vdc) | 200-1000 | 200-1000 | 200-1000 | 200-1000 | 200-1000 |
| Vdc range @ full power (Vdc) | 500-850 | 500-850 | 500-850 | 500-850 | 500-850 |
| ***AC Grid (output)*** | | | | | |
| Normal AC Voltage ($V_{AC}$) | 3P+N+PE/3P+PE 230/400 | | | | |
| Frequency (Hz) | 50 / 60 | | | | |
| Normal AC Current (A) | 43.5 | 52.2 | 58 | 72.5 | 87 |
| Max. cont. output current (A) | 48 | 60 | 65 | 80 | 96 |
| Normal Power (W) | 30000 | 36000 | 40000 | 50000 | 60000 |
| Rated Apparent Power (VA) | 30000 | 36000 | 40000 | 50000 | 60000 |
| Max. cont. Power (W) | 30000 | 36000 | 40000 | 50000 | 60000 |
| Max. cont. Apparent Power (VA) | 30000 | 36000 | 40000 | 50000 | 60000 |
| Power factor(adjustable) | 1.0( -0.8~ +0.8) | | | | |
| **Others** | | | | | |
| Protective class | Class I | | | | |
| Ingress protection (IP) | IP65 | | | | |
| Temperature (℃) | -25℃ to +60℃ (Derating 45℃) | | | | |
| Inverter Isolation | Non-isolated | | | | |
| Overvoltage category | OVC III (AC Main), OVC II (PV) | | | | |
| Software version | DSP: V06 CPLD: V06 HMI: V06 | | | | |

Type of generating unit:
*Tipologia di apparato:*

| Static Conversion Device *Dipositivo di conversione statica* | Interface Protection *Protezione di interfaccia* | Interface Protection Device *Dispositivo di interfaccia* | Rotating Generator Device *Dispositivo di generazione rotante* |
|---|---|---|---|
| Yes/*Si* | No | No | No |

Firmware release (SW): V06
Revisione firmware (SW): V06

**Testing Laboratory:**
***Laboratorio prove:***
DEKRA Testing and Certification (Suzhou) Co., Ltd.
No. 99, Hongye Road, Suzhou Industrial Park Suzhou, 215006, P.R. China
Accreditation Number: L5313 (CNAS-ILAC)

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