

Certificate of compliance

Manufacturer / applicant: AFORE NEW ENERGY TECHNOLOGY (SHANGHAI) Co., Ltd.

1st & 2nd Floor, B Building, Business Building, No. 2 Building,

No. 1588, Lianhang Road, Minhang District, Shanghai

China

Product type: Photovoltaic inverter

Model: BNT015KTL

BNT017KTL BNT020KTL BNT025KTL BNT030KTL

The certificate refers to the stated model(s) which passed the tests according to the applicable standard(s):

UNE 217001:2015 IN

Requirements and tests for systems intended to avoid the energy transmission to the distribution network

RD 1699:2011

Regulation for connection to the network of installations for the production of electrical energy with small power.

RD 661:2007

Regulates for the activity of production of electrical energy in special regime

RD 413:2014

Regulation for the activity of production of electrical energy from renewable energy sources, cogeneration and waste

Report number: AFR-19JY3139FCSHP-1

AFR-19JY3139FCSHP-2

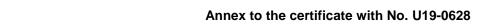
Certificate number: U19-0628

Date of issue: 2019-11-29

Certification body

Holger Schaffer

Certification body of Bureau Veritas Consumer Products Services Germany GmbH
Accredited according to DIN EN ISO/IEC 17065





Ratings

Photovoltaic inverter:	BNT015KTL	BNT017KTL	BNT020KTL	BNT025KTL	BNT030KTL	
Input DC voltage range [V]:	300-800					
Input DC current [A]:	22 + 11	2 x 21	2 x 22	2 x 21	2 x 22	
Output AC voltage [V]:	230/400, 3P+N+PE/3P+PE, 50/60Hz					
Output AC current [A]:	27	30	32	40	45	
Output power [VA]:	15000	17000	20000	25000	30000	

Wattmeter / Power Analyser:	TAPM-50KW
Electrical ratings	
Operating Voltage Range Line to Neutral [Vac] Line to Line [Vac]	184 – 276 320 – 440
AC Frequency [Hz]	45 – 65
Grids Supported Three Phase	3P+N
Power Consumption (typ.) [W]	≤0,4
Accuracy [%]	1
Rating current [A]	72,5
Max current [A]	80
Connection for measurement	direct connected
Communications	
Supported communication interface:	RS485
Communication protocol:	Modbus
Response time:	≤50ms



Ratings

Note:

The TAPM-50KW is designed for a regulated working temperature of -25°C till +60°C.

Error limit caused by current change

Active percentage error limit value energy meter under balance load

Туре	Current range	Power factor	Percentage error limit of each class of meter (%)			
			0.5\$	Class 1	Class 2	
Via transformer	0.01ln≤l<0.05ln	1	±1.0	±1.5	±2.0	
	0.05ln≤l≤lmax	1	±0.5	±1.0	±1.2	
	0.02ln≤l<0.1ln	0.5L 0.8C	±1.0	±1.5	±2.0	
	0.1In≤l≤lmax	0.5L 0.8C	±1.0	±1.0	±1.2	
Direct connected	0.05lb≤l<0.1lb	1	-	±1.5	±2.0	
	0.1lb≤l≤lmax	1	-	±1.0	±1.2	
	0.01lb≤l<0.2lb	0.5L 0.8C	-	±1.5	±2.0	
	0.2lb≤l≤lmax	0.5L 0.8C	-	±1.0	±1.2	
	0.01ln≤l<0.05ln	1	±1.0	±1.5	±2.0	
Notes	In : secondary rated current of current transformer Ib : calibrated current of the meter L: Conductive ; C : Capacitive					

Active percentage error limit value of energy meters under unbalance load

For direct connected meters	For transformer operated meters	Power factor	Percentage error limit of each class of meter (%)		
			0.5S	Class 1	Class 2
0.1 l _b / l _{max}	0.05I _n / I _{max}	1	±0.6	±2.0	±3.0
0.2I _b / I _{max}	0.1I _n / I _{max}	0.5L	±1.0	±2.0	±3.0

The test system is designed for the use of one photovoltaic inverter together with the power analyser.