



PV Microinverter BENY

BYM500/550/600



Type Approved
Safety
Regular Production
Surveillance

www.tuv.com
ID 1111261691

Datasheet

ZHEJIANG BENYI NEW ENERGY CO.,LTD.

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VERSION : 20230804

For the latest version of specification, please refer to www.beny.com or contact to benyi@zjbeny.com
We reserve the right to explain the terms of specification.

WWW.BENY.COM

ZBENY



Description

With the maximum output power of 520/570/600VA, BENY BYM500/550/600 microinverter connect to 1 module and enable module-level maintenance and management of the PV station by monitoring power generation of each module.

Module-level data can be uploaded to the monitoring platform via BENY data transfer units through PLCC/Wi-Fi.



Maximum output power up to 520VA/570VA/600VA channel, adapted to 60~75-cell or 120~150 half-cell PV modules



Static MPPT efficiency 99.80%



High reliability, IP67 (NEMA 6) enclosure



SAFETY
Low DC voltage,
and invisible.



QUALITY
Components selected from
world-class brands.



OPTIMIZATION
Individual MPPT for
each module.



PARALLEL INPUT
18A continuous input



FLEXIBILITY
Adapts to any system size
and optimizes space.



PLUG & PLAY
AC BUS design
no SPOF



25 YEARS
30-year design life
up to 25-year warranty



SMART
Module-level online smart
monitoring

Input Data (DC)

Model	BYM500	BYM550	BYM600
Recommended input power (Single)	(STC) 400~700+ Wp , 60 ~75-cell/120~150 half-cell		
Recommended input power (Dual)	(STC) (300~450 Wp) x 2 ,72~75-cell/144~150 half-cell (NMOT) Vmp≥34V and Imps12A		
MPPT voltage range	24V~50V		
Operating voltage range	16V~60V		
Maximum input voltage	60V		
Max. short circuit current	20A		24A
Max. input current	18A		20A

Output Data(AC)

Rated output power	500W	550W	600W
Maximum output power	520VA (Vac≥230,Vmp≥34)	570VA (Vac≥230,Vmp≥35)	600VA (Vac≥220,Vmp≥33)
Rated voltage(range)	230V(176V~265V)		
Rated frequency(range)	50Hz/60Hz (46.5Hz~62Hz)		
Maximum continuous output current	2.27A	2.5A	2.73A
Maximum harmonic distortion	<4%		
Power factor	>0.99 (Default)		
Maximum connection number in one string	8 units (24A circuit breaker, 12AWG cable)		

Efficiency	
Peak efficiency	96.5%
MPPT efficiency	>99.8%
Night power consumption	<100mW
Other Parameters	
Communication method	PLCC/Wi-Fi (Optional)
Safety protection	Class I
Enclosure rating	IP67
Operating temperature	-40°C to +70°C
Storage temperature	-40°C to +85°C
Relative humidity	0-98%
Transformer design	High frequency transformer, Electrical isolated
Overvoltage class	OVC III (AC), OVC II (PV)
Warranty period	10 / 25years (Optional)
Dimensions(L*W*H mm)	210*230*34
Weight(kg)	2.39
Safety regulations	IEC/EN 61000-6, CISPR11+A1+A2, IEC/EN 62109-1/2, EN 50549-1:2019 VDE-AR-N 4105:2018/DIN VDE 0124:2020, AS 4777.2 :2020, INMETRO, UTE C15-712-1/DIN VDE 0126/VFR 2019, G98, CEI 0-21:2020, NC RFG, NTS DAKKS .

Monitoring Device

Communication with BENY microinverters through PLCC/Wi-Fi enables users to manage the systems in a smart digital way.

