

BENY

Microinverter BENY

BYM500 / BYM550 / BYM600



Datasheet

ZHEJIANG BENYI ELECTRICAL CO., LTD.

Address : Changjiang Rd, Wenzhou Daqiao Industry Park,
Beibaixiang Town, Yueqing, Wenzhou City, Zhejiang Province, China, 325600

TEL : +86-577-5717 7008 Email : benyi@zjbeny.com

VERSION : 20220927

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



Description

With the maximum output power of 600W, BENY BYM500/BYM550/BYM600 microinverter connect to 1 panel 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/Zigbee.



Maximum output power up to 600W/channel, adapted to 60,66,72,75 cell or 120,132,144,150sub cell PV panels



Static MPPT efficiency 99.80%



High reliability, IP67 (NEMA 6) enclosure, 6000 V surge protection



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
Hand-in-hand design.
Fewer add-ons.



25 YEARS
Long 25 years lifetime.
Up to 15 years warranty.



SMART
Module-level online smart
monitoring.

Input Data (DC)

Model	BYM500	BYM550	BYM600
Recommended Input Power (STC)	400~670W Single, 60~75 full/120~150 sub cells (300~450W)*2 Parallel, 72~75 full/144~150 sub cells		
MPPT Voltage Range	24V-50V		
Operating Voltage Range	16V-60V		
Maximum Input Voltage	60V		
Max. Short Circuit Current	20A		
Max. Input Current	18A		

Output Data(AC)

	500W	550W	600W
Rated Output Power	500W	550W	600W
Maximum Output Power	520VA (Vac≥230, Vmp≥34)	570VA (Vac≥230, Vmp≥35)	620VA (Vac≥230, Vmp≥36)
Rated Voltage/range	230V/176-265V		
Rated Frequency/range	50Hz/60Hz (46.5-62)Hz		
Maximum Continuous Output Current	2.27A	2.5A	2.73A
Maximum Harmonic Distortion	<3%		
Power Factor	>0.99 (Default)		
Maximum Connection Number In One String	8 units (24A circuit breaker, 10AWG cable)		

Efficiency

Peak Efficiency	96.5%
European Efficiency	96%
MPPT Efficiency	>99.8%
Night Power Consumption	<100mW

Other Parameters

Communication Method	PLCC/Zigbee Opcional
Safety Protection	Classe 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	VDE-AR-N 4105, EN50549-1, NC RFG, C10/11, INMETRO ABNT ABR 16149/16150/62116, CEI-0-21, AS/NZS 4777, VFR2019, G98, IEC/EN61000, IEC/EN62109

Monitoring Device

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

