



Paralleling Optimizer BENY

BYPO-2



Datasheet

ZHEJIANG BENYI NEW ENERGY CO.,LTD.

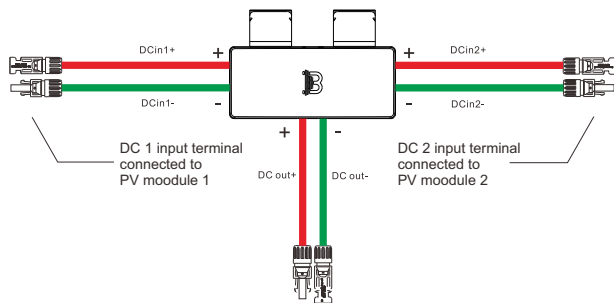
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For the latest version of specification, please refer to www.beny.com or contact to benyi@zjbeny.com
We reserve the right to explain the terms of specification.

WWW.BENY.COM



Specification Description

BYPO-2 is a paralleling optimizer introduced by Beny to enhance the parallel application performance of DC power sources such as photovoltaic modules and energy storage batteries. With two sets of inputs and one set of outputs, BYPO-2 allows for the parallel usage of photovoltaic modules/batteries, resulting in increased output current and greater power output from the photovoltaic module/battery array. BYPO-2 features ultra-low voltage drop and ultra-low losses, effectively solving the issue of current backflow when multiple DC sources are paralleled, and improving system efficiency in the parallel application of photovoltaic modules/batteries.



Solve the problem of current backfeeding when connected in parallel, and improve the life of photovoltaic modules/batteries



Improve the MPPT efficiency of photovoltaic modules/cell arrays in parallel applications



Evaluate the working parameters and faults of individual photovoltaic modules/cells



Safety

Parallel voltage to avoid high voltage



High reliability

Improve PV system and stability



Low loss

Improve system efficiency

Technical specifications of BYPO-2

Input parameters (DC)

Input voltage range	8V ~ 60V
Maximum DC input voltage	60V
Maximum short-circuit input current	20AX2
Maximum continuous input current	18AX2

Output parameters (DC)

Maximum DC output voltage	60V
Forward voltage drop diode forward voltage	$\leq 40\text{mV}$, typical value 30mV ($V_{in1}=V_{in2}$, $I_{in1}=I_{in2}=10\text{A}$)
Maximum continuous output current	32A
Maximum power consumption	$\leq 1.2\text{W}$, typical value 0.6W ($I_{out}=20\text{A}$)

Other parameters

Protective class	II
Housing rating	IP67
Pollution degree	II
Environmental category	Outdoor
Altitudes	2000
Working temperature	$-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$
Storage temperature	$-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
Humidity range	0-98%
Overvoltage level	OVC II (PV)
Input reverse protection	$> 7\text{h}$ ($I_{in1} = I_{in2} = -20\text{A}$)
Warranty period	10 years
Certification standards	IEC/EN62109-1

If there are any changes to the specifications, we reserve the right to make modifications without prior notice. Please visit www.beny.com to download the latest version. © All rights reserved.