



SUNSYS B15-B20-B30

Inverters for photovoltaic systems
on large roofs



HIGH EFFICIENCY
2 MPPT DEVICES
PROTECTION RATING IP65

SUNSYS B15-B20-B30 inverters are the ideal solution for photovoltaic applications on buildings with power between 15 and 30 kW.

Featuring 2 MPPT devices and a wide input voltage range, they make system design an easy and flexible process.

Thanks to their transformerless technology and 3-level technology, they offer a high level of efficiency under all operating conditions.

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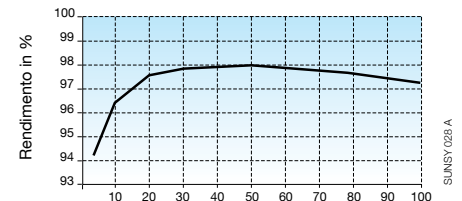
Benefits

- Excellent power generation: one of the highest efficiency levels on the market, thanks to the 2 MPPT devices.
- Improved module efficiency: broad voltage range supported.
- Simplicity: panel connection by means of special FV connectors.
- Greater peace-of-mind: intelligent ventilation (smart-cooling technology) and supervision system.

Technical data

	B15	B20	B30
DC INPUT CHARACTERISTICS			
Max. voltage range	200 - 1000 V		
Optimum voltage range	350 - 800 V		520-800 V
Max. input current	25 A x 2	32 A x 2	
No. of MPPT devices	2		
AC OUTPUT CHARACTERISTICS			
Rated power	15 kVA	20 kVA	30 kVA
Max. power	16 kVA	21 kVA	33 kVA
Output voltage	400 V three-phase with neutral		
Max. efficiency	98.1%		
EU efficiency	97.6%		
Current distortion	< 3%		
Rated AC current	22 A	29 A	43 A
Max. AC current	25 A	32 A	46 A
Power factor	0.9-1		
Output frequency	50 Hz		
GENERAL CHARACTERISTICS			
Dimensions W x D x H	610 x 290 x 965 mm		
Weight	63 kg	65 kg	70 kg
Working temperature	-20 / +60° C		
Protection rating	IP65		
Galvanic isolation	without transformer		
Ventilation	smart-cooling		
Communication	RS485		
STANDARDS			
Standards	VDE 0126-1-1, CEI 0-21, RD 1663, VDE-AR-N 4105		
CE compliance	yes		

Efficiency curve

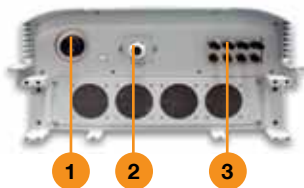


Energy production example

STANDARDS	SUNSYS B15		SUNSYS B20		SUNSYS B30	
Photovoltaic	3 x 21 240 W polycrystalline	3 x 20 250 W monocrystalline	4 x 21 230 W polycrystalline	4 x 23 200 W monocrystalline	6 x 21 240 W polycrystalline	6 x 23 210 W monocrystalline
City	Palermo	Venice	Palermo	Venice	Palermo	Venice
Latitude	38°11'65" N	45°26'15" N	38°11'65" N	45°26'15" N	38°11'65" N	45°26'15" N
Longitude	13°36'33" E	12°20'09" E	13°36'33" E	12°20'09" E	13°36'33" E	12°20'09" E
Photovoltaic generator rated power	15120 W	15000 W	19320 W	18400 W	30240 W	28980 W
Average annual energy production	21950 kWh	17205 kWh	27959 kWh	20876 kWh	43575 kWh	33275 kWh

Connections

SUNSY 038 A



1. AC output
2. Communication interfaces
3. Module input PV-KBT4/2.5l connections

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