

Latest SPI-B2 Series Single Phase String Inverter



Renewable, Reliable, Responsible



HIGH VALUE LOWER COST

More PV Power up to 135% over Nominal AC Power

High efficiency inverter topology design reach up to 98.2%

Advanced control algorithms provides higher grid adaptive ability and stability

IP65 aluminium alloy die-casted chassis



SAFETY AND RELIABILITY

Industry's first cold-resistant inverter with superior operating temperature from -40°C to 60°C

Forced heat reduction control from 45°C for inverter protection

Standard 5 Years Warranty with local Australia based service agent (extendable to 10 or 15 years)

Outdoor or Indoor Installation



INTELLIGENT MANAGEMENT

Intelligent cloud monitoring platform with Smart Phone APP real-time performance monitoring

RS485, GPRS and WIFI communication supported

Smart feed-in export control via Smart Meter (optional)

Grid Friendly with Reactive Power Control and DRM



INSTALLER AND OWNER FRIENDLY

Compact size up to 12.6kg for easy installation

External DC and AC connectors

Natural Cooling to reduce environmental noise $< 25\text{dB(a)}$

Built in LCD screen

Technical Specifications

DC INPUT	SPI1500-B2	SPI2000-B2	SPI3000-B2	SPI3600-B2	SPI4000-B2	SPI4600-B2	SPI5000-B2	SPI6000-B2
Max. PV Power (kW)	2.025	2.7	4.05	4.86	5.4	6.21	6.75	8.1
Max. PV Input Voltage (Vdc)	600							
Start Up Voltage (Vdc)	120							
MPPT Voltage Range (Vdc)	100-550							
No. of MPPTs/ Total Input String (s)	1/1			2/2				
Max. PV Input Current (A)	13			11/11				
Max. PV Input Short Circuit Current (Isc)	16.5			13.8/13.8				
MPPT Efficiency	99.9%							
Max. Backfeed Current to Array (A)	0							

AC OUTPUT	SPI1500-B2	SPI2000-B2	SPI3000-B2	SPI3600-B2	SPI4000-B2	SPI4600-B2	SPI5000-B2	SPI6000-B2
Nominal AC Output Power (kW)	1.5	2	3	3.6	4	4.6	5	6
Max. Output Power (kVA)	1.5	2	3	3.6	4	4.6	5	6
Nominal AC Voltage (Vac)	230							
Rated Output Current (A)	6.5	8.7	13.0	15.7	17.4	20.0	21.7	26.0
Max. Output Current (A)	6.5	8.7	13.0	15.7	17.4	20.0	21.7	26.0
Max. Output Short Circuit Current (A)	20	23	25	32	32	32	32	40
Nominal Grid Frequency (Hz)	50/60							
Grid Frequency Range (Hz)	45-55/55-65							
Power Factor	>0.99 (full load)							
PF Adjustable Range	0.8 (leading)-0.8 (lagging)							
THDI	<3% (nominal power)							

EFFICIENCY	SPI1500-B2	SPI2000-B2	SPI3000-B2	SPI3600-B2	SPI4000-B2	SPI4600-B2	SPI5000-B2	SPI6000-B2
Max. Efficiency	98.1%	98.1%	98.1%	98.3%	98.3%	98.3%	98.3%	98.3%
European Efficiency	97.7%	97.7%	97.7%	97.9%	97.9%	97.9%	97.9%	97.9%

PROTECTION	SPI1500-B2	SPI2000-B2	SPI3000-B2	SPI3600-B2	SPI4000-B2	SPI4600-B2	SPI5000-B2	SPI6000-B2
Anti-islanding	Yes							
Smart Feed-in Control	Yes (via Smart Meter)							
DC Reversed Connection	Yes							
AC Short Circuit	Yes							
Leakage Current Protection	Yes							
Surge Protection	Yes							
DC Switch	No (Optional)							
PV Fault Detect	Yes							
Standard & Certification (upon request)	IEC62109-1/-2, EN62109-1/-2, AS4777.2-2015, G83/2 G59/3 VDE4105 EN50438 AS 62040 CGC/CQC CE							

OTHERS	SPI1500-B2	SPI2000-B2	SPI3000-B2	SPI3600-B2	SPI4000-B2	SPI4600-B2	SPI5000-B2	SPI6000-B2
Dimension (W×H×D) (mm)	360×420×125							
Weight (kg)	11.8			12.6				
IP Grade	IP65							
Inverter Design	Transformerless							
DC Connectors	Amphenol H4-RH							
Noise Emission (typical)(dB)	≤25							
Self Power Consumption at Night	<1 W							
Cooling Mode	Natural cooling							
Max. Operating Altitude	4000m (>2000m derating)							
Operating Temperature Range (°C)	- 40 to 60°C (derate at 45°C)							
Operating Humidity Range	0-95% (Non-condensing)							
Display	LCD display+LED indicator							
Communication	RS485/WiFi (optional)/GPRS (optional)							

*Specifications are subject to change without notice

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