

REC TWINPEAK 25 72 SERIES

PREMIUM SOLAR PANELS WITH SUPERIOR PERFORMANCE

REC TwinPeak 25 72 Series solar panels feature an innovative design with high efficiency and an industry-leading lightweight, yet robust construction, enabling customers to get the most out of the installation area.

Combined with the product quality and reliability of a strong and established European brand, REC TwinPeak 25 72 panels are ideal for commercial rooftops worldwide.



**REDUCES BALANCE OF
SYSTEM COSTS**



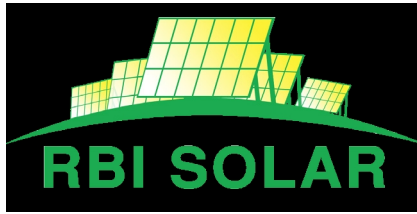
**IMPROVED PERFORMANCE
IN SHADED CONDITIONS**



**INDUSTRY-LEADING
LIGHTWEIGHT 72-CELL PANEL**



**100%
PID FREE**



Ground Mount Solutions



Driven

| Ballasted



Complete Single-Source Solutions

RBI Solar's ground mount solar systems are designed and engineered for each customer's site specific conditions to minimize the field installation labor by eliminating field welding, drilling, or other on-site fabrication. Our meticulous project planning and precise execution combine to provide you with solar racking solutions that are tailored to the unique conditions of your location while reducing your overall total project costs. RBI provides a wide range of PV mounting systems in various sizes to offer freedom and flexibility to support every type of PV module.

Why choose RBI Solar?

- Single-source solutions aide in reduction of overall total project costs
- Streamlined production process
- Wider selection of component parts
- Higher strength steel with corrosion protection
- Uses less steel without sacrificing strength
- Pre-assembled components available
- Quick response & efficient communication
- Follow contours to mitigate civil/site work
- Nationwide installation services
- ETL Classified to UL Standard 2703
- 20-yr limited warranty
- 85+ years manufacturing experience & bankable financial backing





Ground Mount Solutions

- Customizable, site-specific solutions
- Multiple foundations available
- ETL classified to UL Standard 2703



Ballasted Mounting Solutions

- Two ballast foundation offerings
- Perfect for landfills, brownfields and non-penetrable sites



Design & Engineering

- Licensed in-house engineers
- Structural and foundation design
- Stamped drawings, including foundations
- Code compliance
- On-site pile testing



Manufacturing

- Multiple manufacturing facilities
- National & International capabilities
- ARRA compliant availability

Installation

- Dedicated Project & Construction Managers
- Highly skilled & specialized installation crews
- Company-owned post driving equipment

Our Job is to Make Yours Easier

/ Perfect Welding / Solar Energy / Perfect Charging



FRONIUS PRIMO

/ Solutions for a brighter tomorrow.



/ PC board replacement process



/ SnapINverter mounting system



/ Wi-Fi® interface



/ Design Flexibility



/ Smart Grid Ready



/ Arc Fault Circuit Interruption

/ With power categories ranging from 3.8 kW to 15.0 kW, the transformerless Fronius Primo is the ideal compact single-phase inverter for residential applications. The sleek design is equipped with the SnapINverter hinge mounting system which allows for lightweight, secure and convenient installation. The Fronius Primo has several integrated features that set it apart from competitors including dual powerpoint trackers, high system voltage, a wide input voltage range, Wi-Fi® and SunSpec Modbus interface, and Fronius' online and mobile monitoring platform Fronius Solar.web. The Fronius Primo also works seamlessly with the Fronius Rapid Shutdown Box as a reliable rapid shutdown solution outside the PV Array boundary.

TECHNICAL DATA FRONIUS PRIMO

GENERAL DATA	FRONIUS PRIMO 3.8 - 8.2	FRONIUS PRIMO 10.0-15.0
Dimensions (width x height x depth)	16.9 x 24.7 x 8.1 in.	20.1 x 28.5 x 8.9 in.
Weight	47.29 lb.	82.5 lbs.
Protection Class	NEMA 4X	
Night time consumption	< 1 W	
Inverter topology	Transformerless	
Cooling	Variable speed fan	
Installation	Indoor and outdoor installation	
Ambient operating temperature range	-40 - 131°F (-40 - 55°C)	-40 - 140°F (-40 - 60°C)
Permitted humidity	0 - 100 %	
Elevation	4000m (13123 ft)	
DC connection terminals	4x DC+ and 4x DC- screw terminals for copper (solid / stranded / fine stranded) or aluminum (solid / stranded)	4x DC+1, 2x DC+2 and 6x DC- screw terminals for copper (solid / stranded / fine stranded) or aluminum (solid / stranded)
AC connection terminals	Screw terminals 12 - 6 AWG	
Revenue Grade Metering	Optional (ANSI C12.1 accuracy)	
Certificates and compliance with standards	UL 1741-2010 Second Edition (incl. UL1741 Supplement SA 2016-09 for California Rule 21 and Hawaiian Electric Code Rule 14H), UL1998 (for functions: AFCI, RCMU and isolation monitoring), IEEE 1547-2003, IEEE 1547.1-2003, ANSI/IEEE C62.41, FCC Part 15 A & B, NEC 2017 Article 690, C22. 2 No. 107.1-16, UL1699B Issue 2 -2013, CSA TIL M-07 Issue 1 - 2013	UL 1741-2010 Second Edition (incl. UL1741 Supplement SA 2016-09 for California Rule 21 and Hawaiian Electric Code Rule 14H), UL1998 (for functions: AFCI, RCMU and isolation monitoring), IEEE 1547-2003, IEEE 1547.1-2003, ANSI/IEEE C62.41, FCC Part 15 A & B, NEC 2017 Article 690, C22. 2 No. 107.1-16, UL1699B Issue 2 -2013, CSA TIL M-07 Issue 1 -2013

PROTECTIVE DEVICES	STANDARD WITH ALL PRIMO MODELS
DC reverse polarity protection	Yes
Anti Islanding	Internal; in accordance with UL 1741-2016-09, IEEE 1547-2003 and NEC 2017
Over temperature protection	Output power derating/ Active cooling
AFCI	Yes
Rapid shutdown compliant	Per Sect. 690.12 of 2014 (of NEC 2017 prior to Jan 2019)
Ground Fault Protection with Isolation Monitor Interrupter	Yes
DC disconnect	Yes

INTERFACES	STANDARD WITH ALL PRIMO MODELS
USB (A socket)	Datalogging and inverter update possible via USB
2x RS422 (RJ45 socket)	Fronius Solar Net, interface protocol
Wi-fi*/Ethernet LAN	Wireless standard 802.11 b/g/n/Fronius Solar.web, SunSpec Modbus TCP, JSON
Datalogger and Webservice	Included
Serial RS485	SunSpec Modbus RTU or meter connection
6 inputs or 4 digital inputs/outputs	Load management; signaling, multipurpose I/O

*The term Wi-Fi® is a registered trademark of the Wi-Fi Alliance.

TECHNICAL DATA FRONIUS PRIMO

INPUT DATA		PRIMO 3.8-1	PRIMO 5.0-1	PRIMO 6.0-1	PRIMO 7.6-1	PRIMO 8.2-1
Recommended PV power (kWp)		3.0 - 6.0 kW	4.0 - 7.8 kW	4.8 - 9.3 kW	6.1 - 11.7 kW	6.6 - 12.7 kW
Max. usable input current (MPPT 1/MPPT 2)		18 A / 18 A				
Max. usable input current (MPPT 1+MPPT 2)		36 A				
Max. array short circuit current (1.5* I _{max}) (MPPT1/MPPT2)		27 A / 27 A				
Nominal input voltage		410 V	420 V	420 V	420V	420 V
Operating voltage range		80 V - 600 V				
DC startup voltage		80 V				
MPP Voltage Range		200-480 V	200-400 V	240-480 V	250-480 V	270-480 V
Max. input voltage		600 V (1000 V optional ¹)				
Admissible conductor size DC		AWG 14 - AWG 6 copper (solid / stranded / fine stranded)(AWG 10 copper or AWG 8 aluminium for overcurrent protective devices up to 60A, from 61 to 100A minimum AWG 8 for copper or AWG 6 aluminium has to be used) , AWG 6 - AWG 2 copper(solid / stranded) MultiContactWiringable with AWG 12				
Number of MPPT		2				
OUTPUT DATA		PRIMO 3.8-1	PRIMO 5.0-1	PRIMO 6.0-1	PRIMO 7.6-1	PRIMO 8.2-1
Max. output power	208 V/240 V	3800 VA/3800 VA	5000 VA/5000 VA	6000 VA/6000 VA	7600 VA/7600 VA	7900 VA/8200 VA
Output configuration		208/240 V				
Frequency range (adjustable)		45.0 - 55.0 Hz / 50 - 66 Hz				
Operating frequency range default for CAL setups		-/ 58.5 - 60.5 Hz				
Operating frequency range default for HI setups		-/ 57.0 - 63.0 Hz				
Nominal operating frequency		60 Hz				
Admissible conductor size AC		AWG 14 - AWG 6				
Total harmonic distortion		< 5.0 %				
Power factor range		0.85-1 ind./cap				
Max. continuous output current	208 V	18.3 A	24.0 A	28.8 A	36.5 A	38.0 A
	240 V	15.8 A	20.8 A	25.0 A	31.7 A	34.2 A
OCPD/AC breaker size	208V	25 A	30 A	40 A	50 A	50 A
	240 V	20 A	30 A	35 A	40 A	45 A
Max. Efficiency		96.7 %	96.9 %	96.9 %	96.9 %	97.0 %
CEC Efficiency		95.0 %	95.5 %	96.0 %	96.0 %	96.5 %
INPUT DATA		PRIMO 10.0-1	PRIMO 11.4-1	PRIMO 12.5-1	PRIMO 15.0-1	
Recommended PV power (kWp)		8.0 - 12.0 kW	9.1 - 13.7 kW	10.0 - 15.0 kW	12.0 - 18.0 kW	
Max. usable input current (MPPT 1/MPPT 2)		33.0 / 18.0 A				
Max. usable input current (MPPT 1+MPPT 2)		51 A				
Max. array short circuit current (1.5 * I _{max})		49.5 A/ 27.0				
Nominal input voltage		655 V	660 V	665 V	680 V	
Operating voltage range		80 V - 1,000 V				
DC startup voltage		80 V				
MPP Voltage Range		220-800 V	240-800 V	260-800 V	320-800 V	
Max. input voltage		1000 V				
Admissible conductor size DC		AWG 14 - AWG 6 copper direct, AWG 6 aluminum direct (AWG 10 copper or AWG 8 aluminium for overcurrent protective devices up to 60A, from 61 to 100A minimum AWG 8 for copper or AWG 6 aluminium has to be used), AWG 4 - AWG 2 copper or aluminium with optional input combiner				
Number of MPPT		2				
Integrated DC string fuse holders		4- and 4+ for MPPT 1 / no fusing required on MPPT 2				
OUTPUT DATA		PRIMO 10.0-1	PRIMO 11.4-1	PRIMO 12.5-1	PRIMO 15.0-1	
Max. output power	208 V/240 V	9995 VA/9995 VA	11400 VA/11400 VA	12500 VA/12500 VA	13750 VA/15000 VA	
Output configuration		1-NPE 208/240 V				
Frequency range (adjustable)		45-55 Hz / 50-66 Hz				
Operating frequency range default for CAL setups		-/ 58.5 - 60.5 Hz				
Operating frequency range default for HI setups		-/ 57.0 - 63.0 Hz				
Nominal operating frequency		60 Hz				
Admissible conductor size AC		AWG 10- AWG 2 copper (solid/stranded/fine stranded)(AWG 10 copper or AWG 8 aluminium for overcurrent protective devices up to 60 A, from 61 to 100A minimum AWG 6 aluminium has to be used), AWG 6-AWG 2 copper (solid/stranded) Multi Contact Wiring able with AWG 12				
Total harmonic distortion		< 2.5 %				
Power factor range		0-1 ind./cap.				
Max. continuous output current	208 V	48.1 A	54.8 A	60.1 A	66.1 A	
	240 V	41.6 A	47.5 A	52.1 A	62.5 A	
OCPD/AC breaker size	208 V	70 A	70 A	80 A	90 A	
	240 V	60 A	60 A	70 A	80 A	
Max. Efficiency		96.7 %				
CEC Efficiency 600 V/ 1000 V	240 V	96.0 % / 96.5 %			96.5 % / 97.0 %	

¹ inverter rated for up to 1000 V open-circuit. Nominal, Operating, and MPP voltages based on 600 V system design. Actual DC system voltage is dependent on PV string-sizing, not inverter input capacity.

/ Perfect Welding / Solar Energy / Perfect Charging

THREE BUSINESS UNITS, ONE GOAL: TO SET THE STANDARD THROUGH TECHNOLOGICAL ADVANCEMENT.

What began in 1945 as a one-man operation now sets technological standards in the fields of welding technology, photovoltaics and battery charging. Today, the company has around 3,800 employees worldwide and 1,242 patents for product development show the innovative spirit within the company. Sustainable development means for us to implement environmentally relevant and social aspects equally with economic factors. Our goal has remained constant throughout: to be the innovation leader.

Further information about all Fronius products and our global sales partners and representatives can be found at www.fronius.com

v08 Aug 2017 EN

Fronius USA LLC

6797 Fronius Drive

Portage, IN 46368 USA

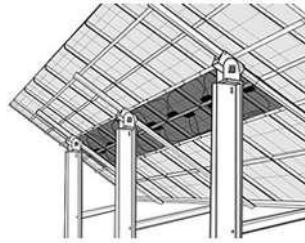
pv-support-usa@fronius.com

www.fronius-usa.com





SOLARSCRIM is a simple, economical and functional barrier for electric code compliance of photovoltaic (PV) solar systems. We have two solution options; 1) for utilitarian (under the array), 2) for more aesthetic purposes (perimeter skirts). National Electric Code (NEC) Section 690.31(A) requires the wiring of all systems with voltage greater than 30 volts to not be "readily accessible." Depending on code interpretation of inspectors in your jurisdiction, SOLARSCRIM addresses this code requirement in a unique and aesthetically pleasing way.



Under the Array



Perimeter Skirt