



SolarEdge PowerBox™ Thin Film Solution

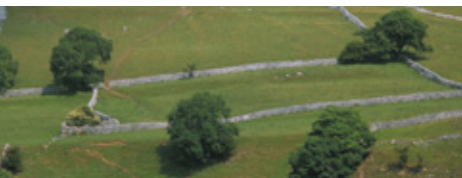


A superior approach to maximizing the throughput of photovoltaic systems using module embedded electronics

- Up to 25% increase in power output
- Simple, error-free system design & installation
- Next generation maintenance with module-level monitoring and smart alerts
- Unprecedented installer and fireman safety
- 25 year reliability & warranty
- **Designed for lower-power, higher-voltage thin-film panels**
- **Eliminates the need for string fuses and diodes**
- **Enables longer string lengths which reduces wiring and combiner box requirements**



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SolarEdge PowerBox™

Thin Film Solution

PB350-TFI

HIGHLIGHTS

- Groups of 2-4 modules are connected in parallel to a single Add-on PowerBox
- Lower installation costs with faster design, less wiring, diodes, fuses and better maintenance
- Module level monitoring - for easy module and string level fault detection with no added wiring
- Unprecedented installer and fireman Safety Mode - safe module voltage when inverter is disconnected or off
- Immediate installation feedback for quick commissioning
- Part of SolarEdge's patented Smart-DC system
- Easy no constraint installation – use the same installation methods as exist today with all the SolarEdge added benefits
- Panel level MPPT - optimizes each panel separately
- Allows parallel uneven length strings with no added diodes
- Simplifies panel inventory considerations

TECHNICAL DATA

INPUT		
Rated Total Input DC Power	350	W
Number of Input Panels (Parallel Connection)	2 - 4	
Absolute Maximum Input Voltage	100	Vdc
Maximum Input Current (Total of All Inputs)	10	Adc
Fuse Inputs	Optional	
MPPT Operating Range	10 - 95	Vdc
Reverse-Polarity Protection	Yes	
Maximum Efficiency	98.6	%
European Weighted Efficiency	97.8	%
CEC Weighted Efficiency	97.7	%
Inductive Lightning Protection	1 / 3	m / ft
Nighttime Power Consumption	0	W
OUTPUT DURING OPERATION (POWERBOX CONNECTED TO OPERATING INVERTER)		
Maximum Output Current	15	Adc
Operating Output Voltage	5 - 60	Vdc
Total Maximum String Voltage (Controlled by Inverter) - US and EU 1-ph	600	Vdc
Total Maximum String Voltage (Controlled by Inverter) - EU 3-ph	1000	Vdc
OUTPUT DURING STANDBY (POWERBOX DISCONNECTED FROM INVERTER OR INVERTER OFF)		
Safety Output Voltage per PowerBox	1	Vdc
PV SYSTEM DESIGN		
String Limitations - EU, 1ph System	8 - 25	PowerBoxes
String Limitations - EU, 3ph System	16 - 50	PowerBoxes
String Limitations - US	8 - 25	PowerBoxes
Parallel Strings of Different Lengths or Orientations	Yes	
STANDARD COMPLIANCE		
EMC	FCC Part15 Class B, IEC61000-6-2, IEC61000-6-3	
Safety	UL1741, IEC-62103 (class II safety), IEC61730	
Material	UL-94 (5-VA), UV Resistant	
WEEE, RoHS	Yes	
INSTALLATION SPECIFICATIONS		
Dimensions (WxLxH)	149.5x142x27.2 / 5.9x5.6x1.1	mm / in
Weight	800 / 1.8	g / lb
Operating Temperature Range	-40 - +65 / -40 - +150	°C / °F
Protection Rating	IP65 Outdoor Use / NEMA 3R	
Relative Humidity	0 - 100	%

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