

PARALLUX vBOOST 350

350-WATT DC-TO-DC CONVERTER MODULE



eIQ Energy's innovative, patent pending, power management technology makes solar energy more dependable and affordable. Our Parallax solution enables solar arrays to harvest more energy, and has advantages throughout the entire deployment: from design to installation and daily operation.

The heart of the Parallax system is the vBoost converter module, which steps up the voltage output of a solar panel and creates a parallel avconnection to a constant-voltage bus.

eIQ Energy's Parallel Solar approach gives array designers unprecedented flexibility and faster installation. Our distributed power point tracking provides immediate improvements in energy harvest and array operation.

The vBoost 350 accommodates panels outputting 30 to 100 volts, including thin-film panels. It mounts directly on the panel rail, connecting to the PV module with an MC3 or MC4 connector. Power and data are carried on a single cable.

FEATURES

Parallel architecture with constant voltage output over entire input power curve

Direct connection to solar panel MC connector; no additional panel wiring needed

Complete cable assembly with #10 UL rated PV wire for vBoost unit interconnection and #12 UL wire for connection to PV modules

Full communications over power line to central module. Collected data includes:

- **Voltage input** (from panel)
- **Current input** (from panel)
- **Power input** (from panel)
- **Voltage output** (from vBoost)
- **Current output** (from vBoost)
- **Power output** (from vBoost)
- **Ambient temperature**
- **Unit status**

Auto shut-off when unit is disconnected from inverter/Comm Module

Watertight NEMA 4 enclosure

Flexible mount points for connection to any racking system

High-availability fault tolerant design

vBoost | 350

Electrical Specifications	vBoost350
Input	
Maximum Input Power	350W
Maximum Input Voltage	100V
Minimum Input Voltage	30V
Maximum Input Current	10A
Output	
Maximum Output Power	350W
Output Voltage Range	250V-350V (set by inverter)
Maximum Output Current	1.25A (internal current limit; 1.5A fuse)
Conversion efficiency (peak)	97-98%
Operating Temperature Range	
	-40°C to 65°C
Enclosure	
	NEMA 4 sealed metal case
Maximum Units in Series	
	9,300 watts at 310 VDC output voltage
Compliance	
	UL1741/IEEE1547; CSA107.1, CE, FCC P15
EMI Input/Output Filters	
	FCC Class D
Mechanical	
Dimensions: inches (cm)	8" x 3" x 2" (20.3 x 7.6 x 5.1)
Weight	2.5 lbs



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