

Sub-Array & String Level DC Monitoring

SMART MONITORING HOMERUN™ COMBINER

Draker Laboratories and Blue Oak Energy have combined forces to provide powerful and reliable photovoltaic (PV) system operation and performance monitoring by seamlessly integrating the monitoring into the power distribution system.

Incorporating Draker's Sentalis™ data acquisition and performance monitoring technology and Blue Oak's rugged fiberglass enclosures and versatile sizing layouts, our Homerun Combiner Boxes protect your fused source circuits and provide string-level monitoring to maximize performance.

Features

Combiner Box

- ETL listed to UL1741 (rated with a broad temperature window of -25°C to +50°C)
- Housed in a NEMA 4X, UV resistant fiberglass enclosure (metallic enclosure also available)
- Weather-sealed hinged design enabling vertical or horizontal mounting
- Easy interior access and ample room to route and organize solar arrays
- 8 fused and monitored poles ideally suited for output to a 100 amp fuse or disconnect



Interface

- Intuitive user interface showing real-time data and system status
- Comprehensive diagnostic tools with meaningful graphs and useful alarms
- Web-enabled smart monitoring automatically sends alarm messages to operators when strings are underperforming

Total : PV 1 : Hub 1

hover to view details	Combiner Boxes		Strings (A)							
	Total Current (A)	Performance	Str 1	Str 2	Str 3	Str 4	Str 5	Str 6	Str 7	Str 8
Cb 1	5.1	97.7	0.6	0.7	0.6	0.7	0.6	0.6	0.7	0.6
Cb 2	4.1	89.8	0.6	0.6	0.6	0.6	0.5	0.7	0.5	-
Cb 3	4.8	92	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Cb 4	4.5	98.5	0.6	0.7	0.7	0.6	0.7	0.6	0.6	-
Cb 5	4.8	92	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Cb 6	4.4	96.4	0.7	0.6	0.6	0.7	0.6	0.6	0.6	-
Cb 7	4.5	98.5	0.6	0.7	0.7	0.6	0.6	0.6	0.7	-

Smart Monitoring Homerun Combiner Box (continued)



ETL listed for safety as an inverter accessory to the the UL1741 standard. HCB8M has been tested in a wide range of temperatures to ensure safe delivery of full power in the most extreme conditions.

Specifications

Models	HCB8M	HCB12M (not ETL listed)
Number of Fuse Poles	8	12
Maximum Input Fuse Rating (A)	15	15
Maximum DC Current (A)	120	180
Maximum Voltage (VDC)	600	600
Input Wire Size (AWG)	14-6	14-6
Output Wire Size (AWG or kcmil)	6-350	14-6
Operating Temperature (degrees C)	-25 C to +50 C	-25 C to +50 C
Enclosure Rating	NEMA 4X	NEMA 4X

Sizing Layouts

- 1 Hub can host up to 8 combiner boxes
- 1 Sentalis™ 1000 Base Station can host up to 32 Hubs
- Wireless Hubs available to reduce installation costs

