

Spectrolab CPV Products

Russ Jones



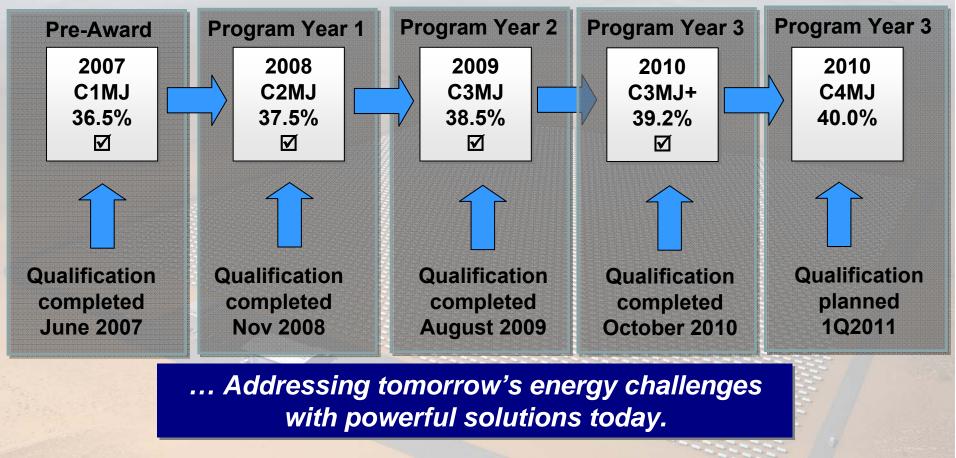
I DODING COMPANY

Spectrolab CPV Product Generations

Space & Intelligence Systems | Spectrolab

Spectrolab — the world leader in multi-junction cell manufacturing — is transforming record-breaking technology into production reality ...

1131,10

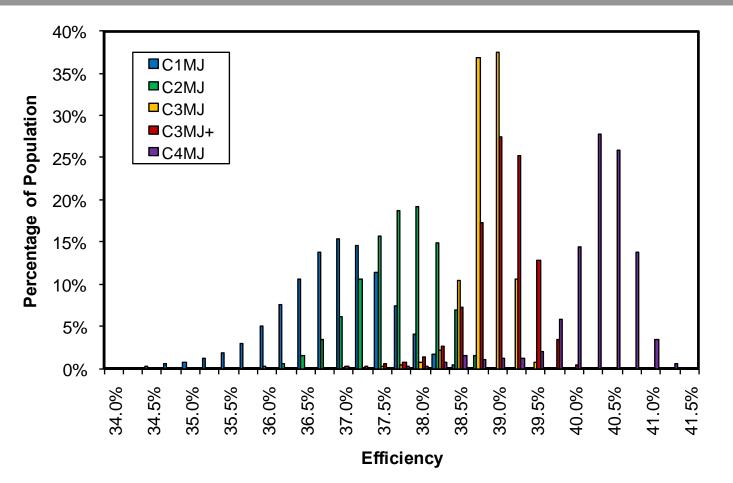


© 2011 Spectrolab, Inc. A Boeing Company. All Rights reserved.

Production Efficiency Distributions

A DUAND





Efficiency improvement in successive generations of MJ cells (data as of Feb 25, 2011)

© 2011 Spectrolab, Inc. A Boeing Company. All Rights reserved.

Spectrolab CPV Product Formats

Space & Intelligence Systems | Spectrolab



Processed Wafers



• 100% tested

100% tested

waffle trays

- Customer pay only for the parts that meet inspection criteria
- Supplied with cell performance map

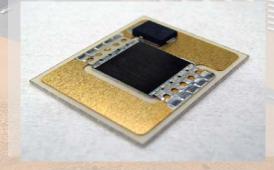
Bare Cells

Prototyping Support

Cells with Welded Interconnects (For CDO-100 cells only)

Concentrator Cell Assemblies (CCAs) (For CDO-100 cells only)





 High reliability, ultra-low series resistance silver interconnect for easy prototype assembly

Supplied sorted and binned in

- Integrated bypass diode for reverse current protection
- Alumina substrate with directbonded copper electrical traces



Standard CPV Products and Availability

Space & Intelligence Systems | Spectrolab

Product	Description 🌣	Availability 🌣
046191 ("CDO-100")	1.0 x 1.0 cm aperture	Available in Both
	area. Dual Ohmic	C3MJ+ and C4MJ.
	Busbars	Bare Cell in Waffle Tray
046167	0.93 x 0.93 cm	Available in C3MJ+ , C4MJ .
("CDO-086")	aperture area. Dual	Processed wafers
	Ohmic Busbars	Bare Cell in Waffle Tray
046192 ("CDO-076")	0.88 x 0.86 cm	Available in C3MJ+ , C4MJ .
	aperture area. Dual	Processed wafers
	Ohmic Busbars	Bare Cell in Waffle Tray
046268	0.80 x 0.80 cm	Available in
("CDO-064")	aperture area. Dual	C4MJ Only.
	Ohmic Busbars	Processed wafers.
046183	0.70 x 0.70 cm	Available in
("CDO-049")	aperture area. Dual	C4MJ Only.
	Ohmic Busbars	Bare Cell in Waffle Tray
046193	0.55 x 0.55 cm	Available in C3MJ+ , C4MJ.
("CDO-030")	aperture area. Dual	Processed wafer
	Ohmic Busbars	Bare Cell in Waffle Tray

RIANO

$ otin \mathbf{Cell} \ sizes \ can \ be$
designed to customer
specifications on
request

- Parts can be made available in other formats on request
- Contact us for more
- information or a quote at

info@spectrolab.com

Spectrolab Illumination Products for CPV Test

Space & Intelligence Systems | Spectrolab



© 2011 Spectrolab, Inc. A Boeing Company. All Rights reserved.

