

WD-A-CC Series Product Specifications

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Product Specifications

1. WD-A-CC Series Module Specifications

Table1. Physical Specifications

Property		Specification
Active Material of Cell		Amorphous silicon
Junction Type of Cell		Single-junction
Material for Encapsulation		Polyvinylbutyral (PVB), thickness: 0.76mm
Front Cover		Float glass, thickness: 3.2 mm
Back Cover		Tempered float glass, thickness: 3.2 mm
Wiring Material		Tin & silver coated copper ribbon, thickness: 0.1 mm
Junction Box / IP Class		Multi-Contact PV-JB-LC-2 / IP 65
Junction Box Cable Length		800 mm x 2
Connecting Cable/Plug		Rated voltage : 1000V D.C. Temperature range : -40 to 90°C Plug/Socket type : Ø 4mm Cable cross section : 2.5mm ²
See-through		No
Frame		No
Dimensions	Length	1300 mm +2/-1mm
	Width	1100 mm +2/-1mm
	Thickness	7.0 ± 0.5 mm (without junction box) 21.2 ± 1.0 mm (with junction box)
Weight		24.0 ± 0.5 Kg

Table 2. Certifications

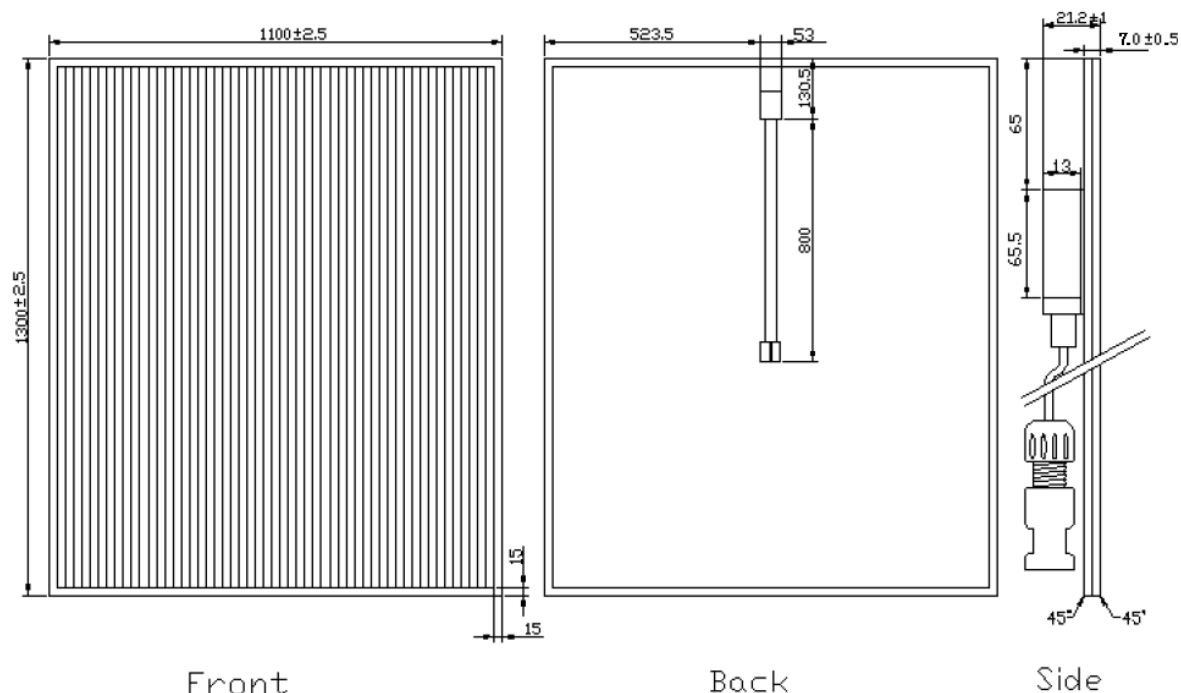
Certifications	
Certifications	EN/IEC 61646 EN/IEC 61730 application Class A Class C fire rating
Remark: 1. The module is tested under 2400Pa (50 lb/ft ²) mechanical load or approximately to a wind speed of 130 km/h (80 mph).	

Table3. Electrical Specifications

Property						Specification			
Max. System Voltage						1000 Volt D.C.			
Temperature Coefficients						Isc: +0.04 %/K Voc: -0.28 %/K Pmpp: -0.21 %/K Vmpp: -0.28 %/K			
Maximum Over-current Protection Rating						2 A			
Module classification	Power Class	Stabilized Performance at STC				Initial Performance at STC			
		Vmpp [V]	Impp [A]	Voc [V]	Isc [A]	Vmpp [V]	Impp [A]	Voc [V]	Isc [A]
WD-A-CC-087-40	75 W	97	0.78	131	0.97	103	0.90	136	1.03
WD-A-CC-087-30	80 W	100	0.80	134	1.00	106	0.93	139	1.06
WD-A-CC-087-20	85 W	103	0.83	137	1.05	110	1.00	141	1.11
WD-A-CC-087-10	90 W	106	0.86	140	1.08	112	1.10	144	1.16
		With +10%/-5% tolerance							
Remarks: 1. The modules electrical ratings are measured under Standard Test Conditions (STC) and have been delivered on the specific table of electrical characteristics as shown above. 2. A photovoltaic module may produce more current and/or voltage than reported at STC. Sunny, cool weather and reflection from snow or water can increase current and power output. Therefore, the values of Isc and Voc marked on the modules should be multiplied by a factor of 1.25 when determining component voltage ratings, conductor ampacities, fuse sizes, and size of controls connected to PV output. 3. [STC]: 1000 W/m ² , AM 1.5, 25 °C 4. The exactly measured electrical characteristics are shown on the label at rear side of the modules.									

3. Dimensions and Drawing

Refer to the following diagram.



4. Standard operating conditions

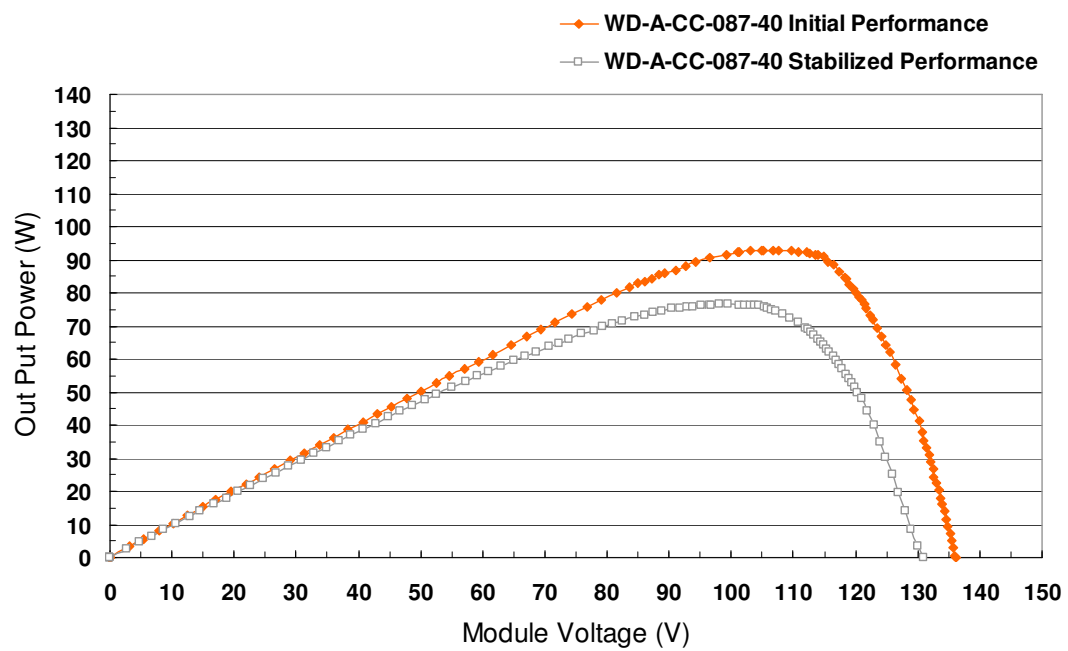
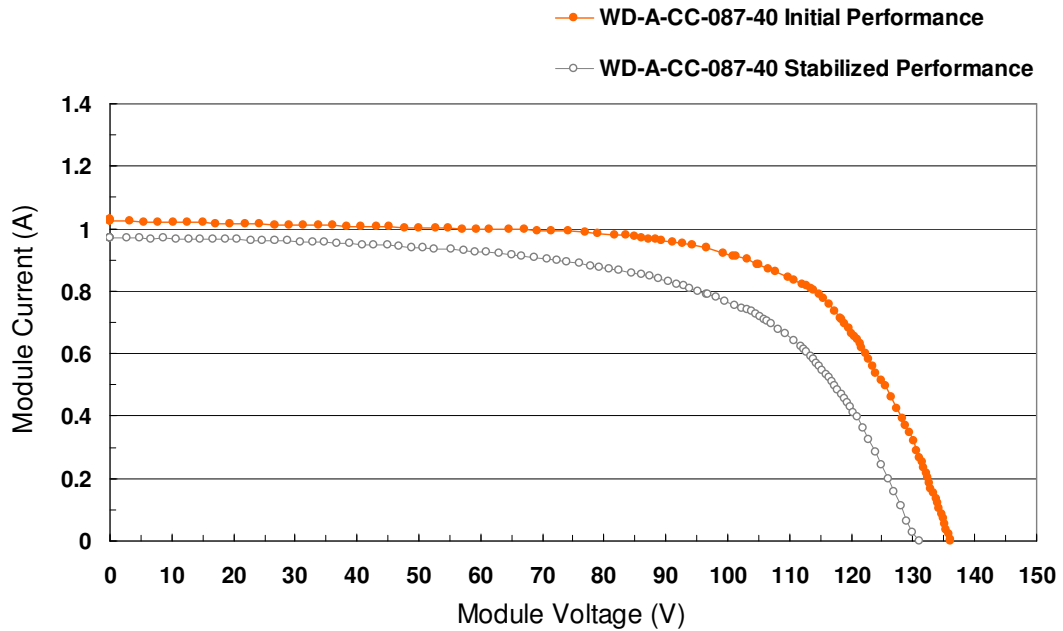
The modules should operate under sufficient sunlight and subjected to seawater or snowfall (1 m or more) should be avoided. Ambient temperature should be in the range between -20°C and 45°C . The modules can be installed either vertically or horizontally and must be securely fixed. The junction box is qualified for IP65 of IEC 60529; however, water accumulating on the junction box or being immersed in water should be avoided.

5. Warranty

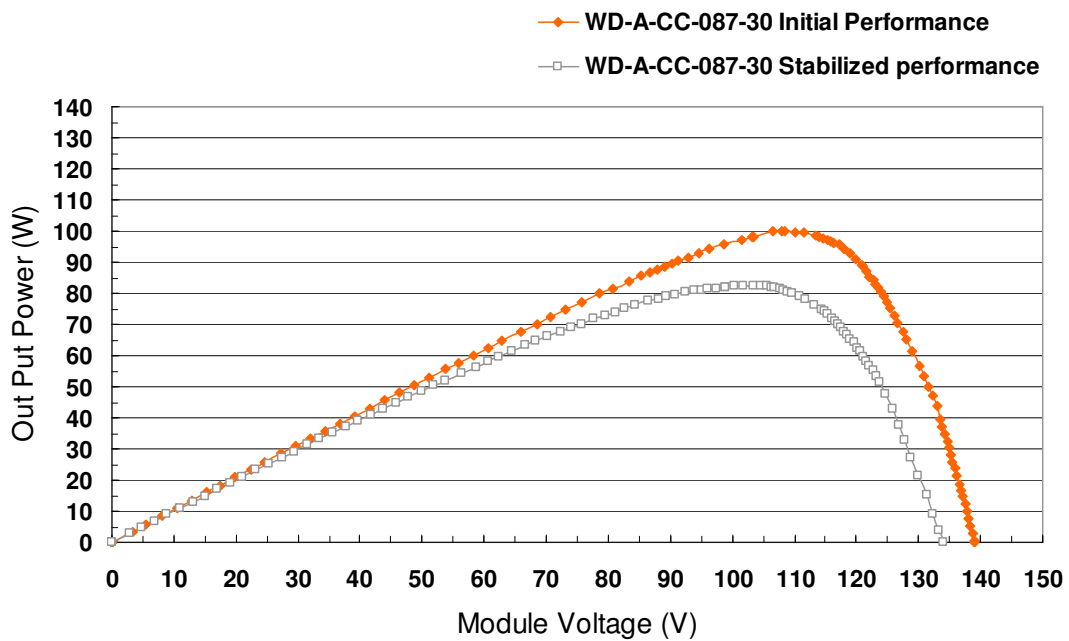
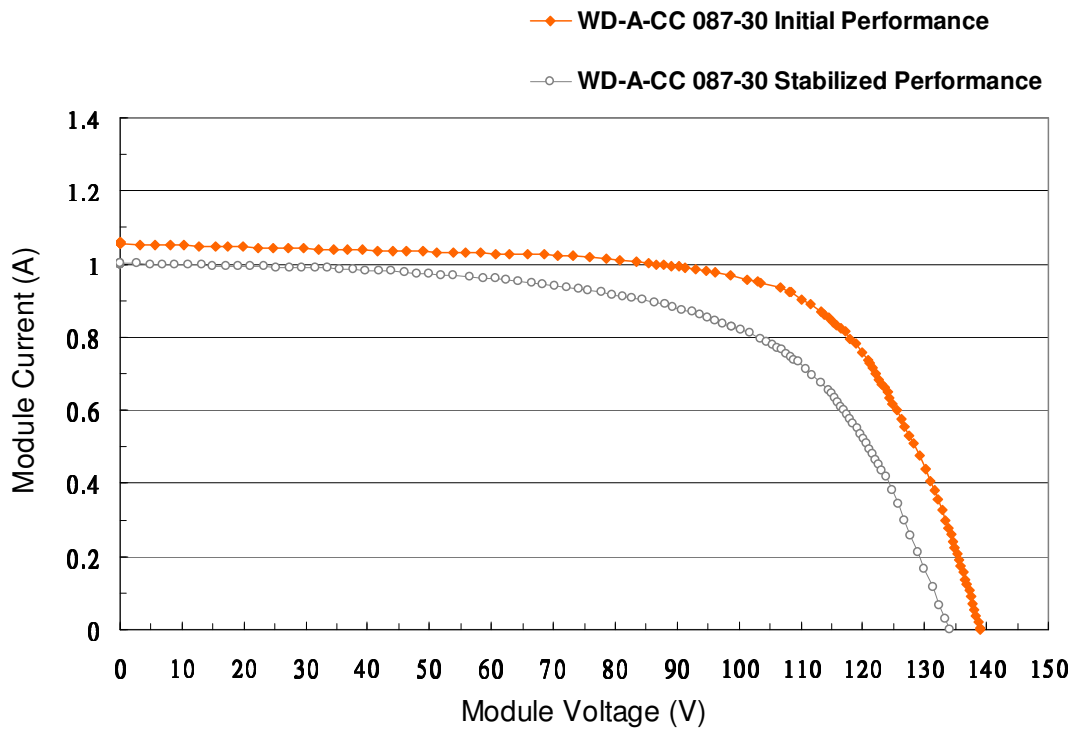
Product Guarantee (Workmanship/ Material)	Power Guarantee (Pmax output)
2 years after the shipment from SWS	90% of the specified minimum output of the module for a 10-year period, 80% of the specified minimum output of the module for a 20-year period after shipment from SWS.

5. Performance characteristics.

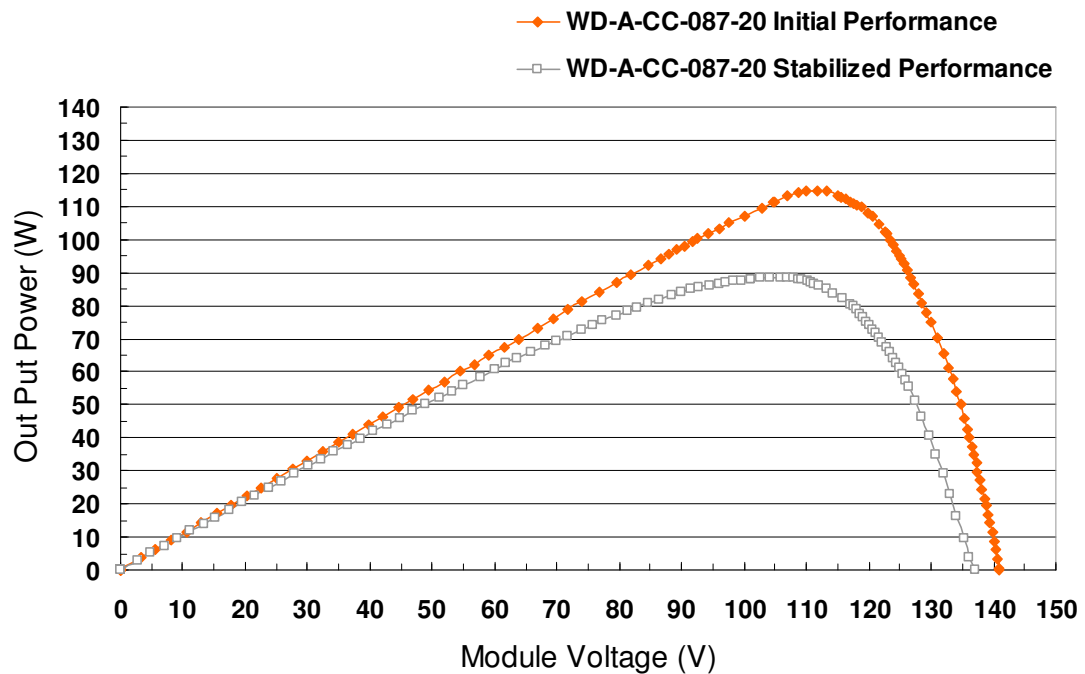
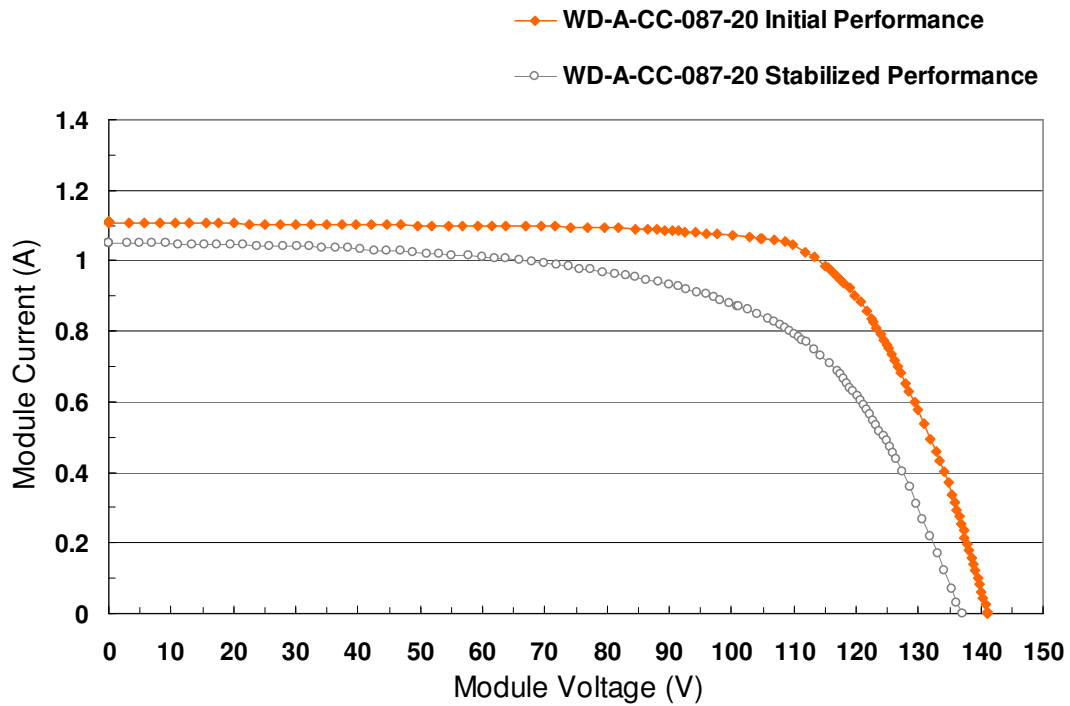
I. WD-A-CC-087-40



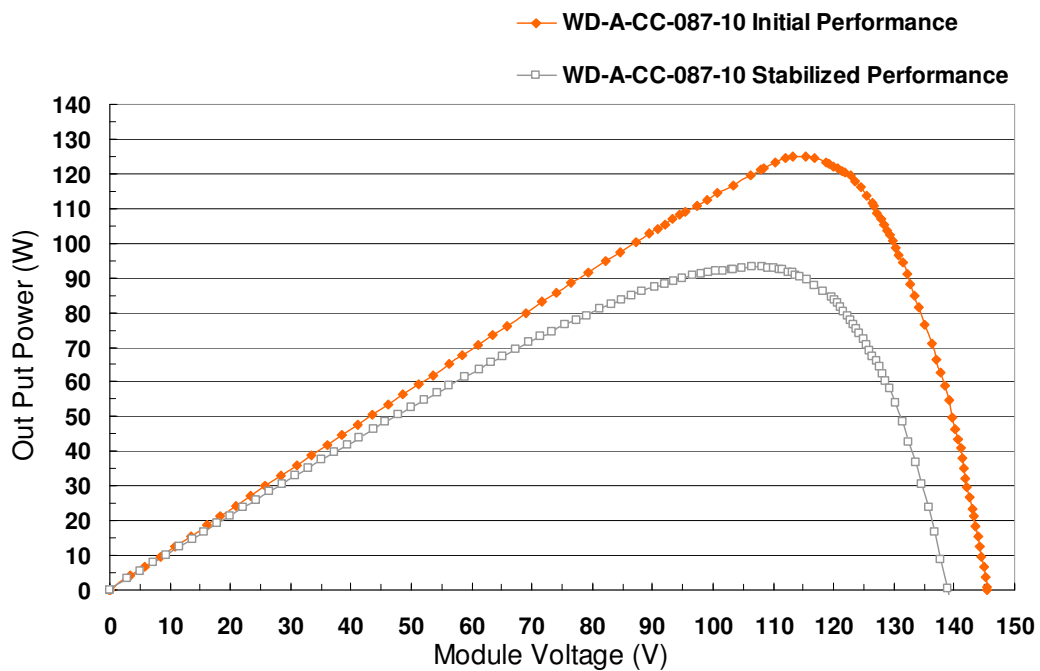
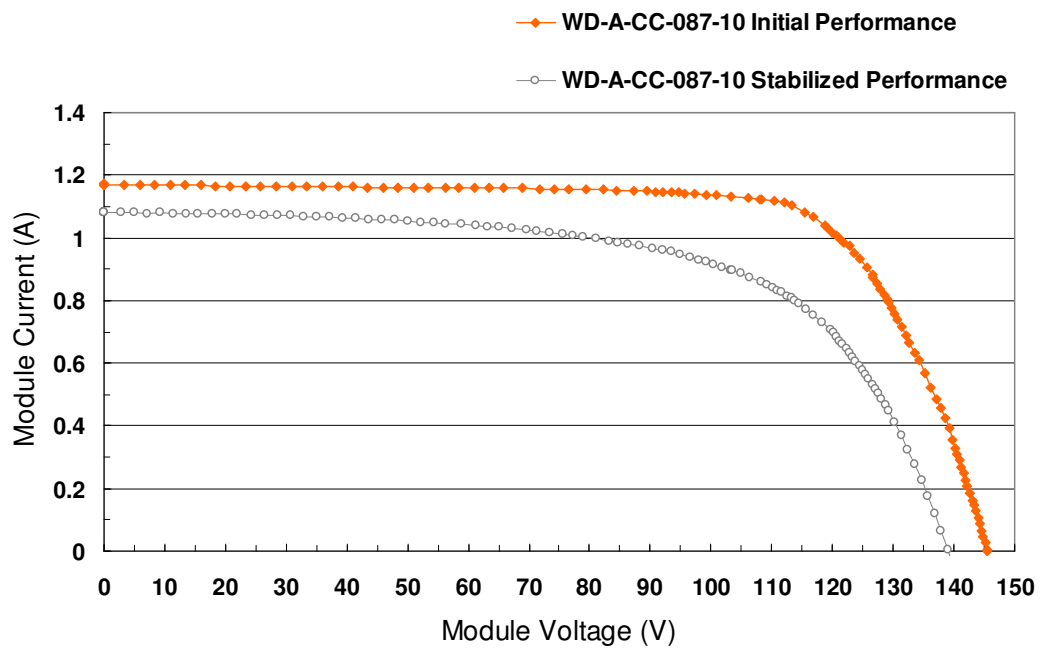
II. WD-A-CC-087-30



III. WD-A-CC-087-20



IV. WD-A-CC-087-10



V. Temperature Coefficient of WD-A-CC Series Modules

