

Calibrated cell



- ▶ Help in the evaluation of the behavior and of PV module conversion efficiency during the PV plants assessment
- ▶ High performance calibrated reference cell
- ▶ Monocrystalline technology
- ▶ Calibrated by a test laboratory and delivered with calibration certificate
- ▶ Measures solar radiation

High-performance monocrystalline calibrated cell. The calibration of every sensor is achieved by a reference element from an accredited test laboratory. The solar cell is embedded in Ethylene-Vinyl-Acetate (EVA) between glass and Tedlar and integrated in a powder-coated aluminum housing. The construction of the sensor is comparable to that of a standard PV module. A calibrating printout (similar to EN DIN 17025) reports the product specific parameters .


Technical Specifications

Order numb.	PRRDA4001	PRRDA4030	PRRDA4050
Output	~85 mV /1500 W/m ² @25°C	4...20 mA	RS485
Accuracy	±0.3±5% (0...100 W/m ²) 0.2±5% (100...1500 W/m ²)	±4.5±2% (0...100 W/m ²) ±3±2% (100...1500 W/m ²)	±2±2% (0...100 W/m ²) ±1±2% (100...1500 W/m ²)
Offset	0 W/m ²	2.2 W/m ²	1 W/m ²
Response time	0.001 s	0.15 s	1 s
Temperature dependancy (-35...+80°C)	3%	0.4%	
Power	-	12...28 V DC	
Cable	Shielded, L=3m	Shielded, L=3m + connector for DWA5XXA cables	
DL compatibility	E-Log	E-Log	Alpha-Log

Common Technical Specifications

Solar Radiation	Technology	Monocrystalline
	Stability per year	0.5 %
	Non linearity	0.1%
General Information	Housing	Aluminium powder coating
	Weight / Dim.	0.4 kg / 155 mm x 85 mm x 39 mm
	Fixing	Lateral holes Ø 6.5 mm, 8.5 mm e 6.5 mm
	Protection grade	IP65
	Operative temp.	-35...80°C
	Mounting	Mast Ø 48...50 mm
	Material	Embedded in Ethylene-Vinyl-Acetate (EVA) between glass and Tedlar

Accessories

	DWA505A	Cable L=5 m
	DWA510A	Cable L=10 m
	DWA525A	Cable L=25 m
	DWA526A	Cable L=50 m
	DYA060	Lateral fixing arm for cell installation on PV module