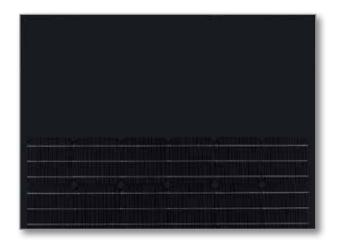


# ROOF Collection

## **RTL-CDW**



#### Architectural integration

System Photonics' photovoltaic tiles are perfect for architectural integration as they have no aluminum frame and are also elegant and sturdy. The tiles come in 13 different colors and their passive elements, made in the same size and with the same ceramic material as the active module, make for solutions that were thought to be impossible until today.

#### Technological innovation

The use of a thin 3mm ceramic back sheet and an encapsulant 5 times harder and 100 times more resistant than those normally used (EVA, PVB) guarantees unparalleled durability and reliability.

#### Ease of installation

The module is extremely easy to install in the place of normal tiles, guaranteeing a **shingletype** installation with walk-on panels change and total waterproofing of the roof up to an angle of 18° even without the use of sheathing. The rails with adjustable brackets make it extremely easy to install the tiles by applying them on the existing structure.

System Photonics' photovoltaic tiles can replace or be integrated with a traditional roof, maintaining or improving its insulating and protective covering. These aesthetic, sturdy and reliable products are intended specifically for applications on roofs. This is the best choice for a photovoltaic roof that does not compromise between aesthetics and functionality.

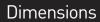


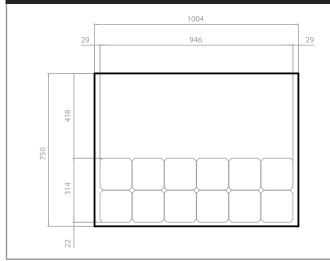
**System Photonics SpA** has created the first ever photovoltaic system that can be perfectly integrated in the architecture and that combines the versatility of a ceramic sheet with the new generation of photovoltaic modules, bringing design to the forefront. This exclusive system, based on cutting edge technology, combines both aesthetics and functionality.

### **Benefits**

Electrical characteristics	L characteristics The following were measured in standard test conditions [STC] with radiation at 1000W/m2, an air mass of AM 1.5 and cell temperature at 25°C					
			RTL-CDW 40	RTL-CDW 45		
Rated power (+/- 3%)		Pnom	40 W	45 W		
Open circuit voltage		Voc	6.88V	7.34V		
Short-circuit current		lsc	8.40 A	8.46 A		
Voltage at max power		Vmp	5.40 V	5.71 V		
Current at max power		Imp	7.5 A	7.96 A		
Max reverse current			15 A			
Max system voltage		IEC	1000 V			
Operating temperature		IEC	Between -40 °F and +85 °F (-40 °C and +85 °C)			
	Power	Pmp	-0.47 % / K			
Tomporatura coefficiente	Voltage	Voc	-0.36 % / K			
Temperature coefficients	Current	lsc	+0.03 % / K			
	NOCT*		44.5 °C			

\*Typical value measured with Black backsheet







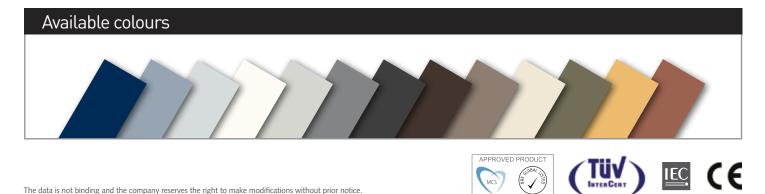
	Cells	Туре	Single-crystal silicon		
		Number	12 cells (6 × 2)		
Front cover			0,125" (3.2 mm) tempered glass		
Junction box			IP-65 with I bypass diode		
Outlet cables			Cable length: 39" (1000 mm) / MC4 connectors		
Dimensions Weight Max load			39.52" x 17.87" x 0.32" (1004 mm x 754 mm x 8 mm) height of the junction box 0.87" (22 mm)		
			28,6 lb (13 kg)		
			Certified 5400 Pascal (112 lb/sq.ft.) Tested up to 700 kg/m² (143 lb/sq.ft.)		

 500	 
	MOUNTING ACCESSORIES

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Warranties	s and Certi	fications			
Warranty	25-year power warranty				
	10-year product warranty				
Certifications	IEC 61215				
	IEC 61730 (safety test)				
	Protection class II				
	CE				
Conformity	UNI EN 538	UNI EN 539-1	UNI EN 1024		
	UNI EN 539-2	UNI EN 1304			

(TUV)



The data is not binding and the company reserves the right to make modifications without prior notice.