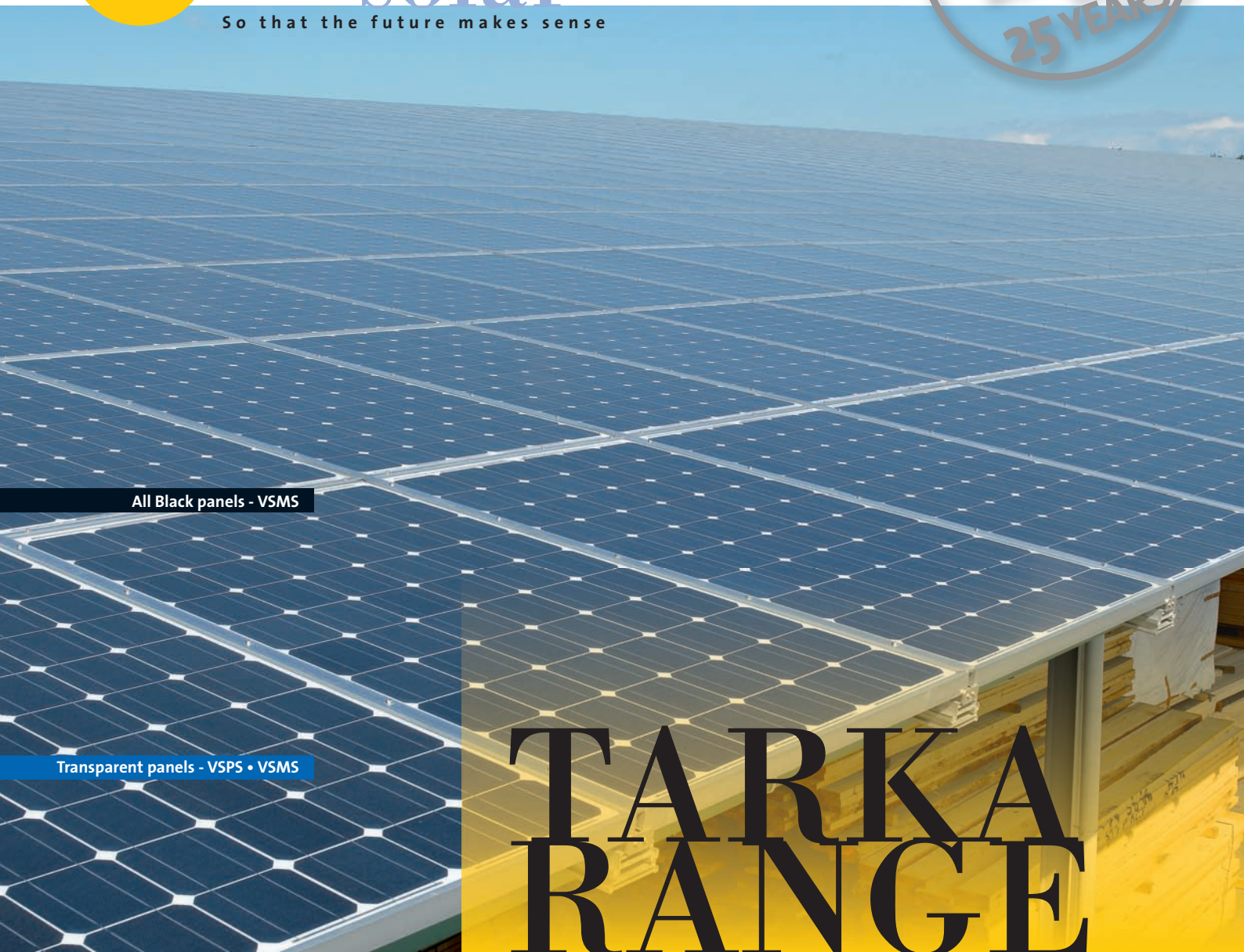




VOLTEC solar

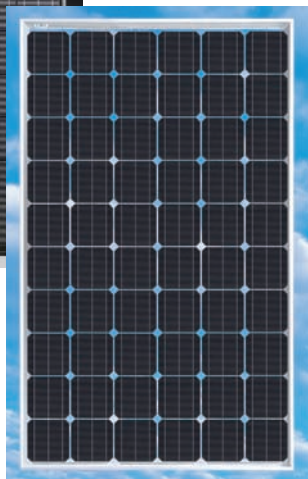
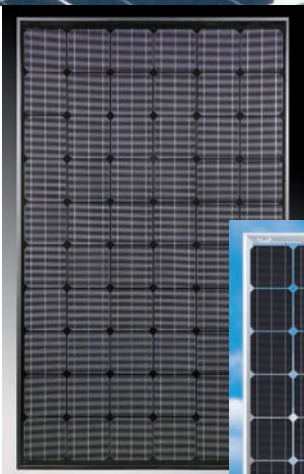
So that the future makes sense



All Black panels - VSMS

Transparent panels - VSPS • VSMS

TARKA RANGE



“All Black” and “Transparent”:

Monocrystalline panels - VSMS

Multicrystalline panels - VSPS

**French-German Enterprise
Production in Alsace**

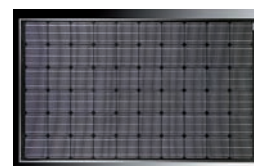


* Warranties subject to terms and conditions of sale

TARKA RANGE

VSPS AND VSMS PANEL CHARACTERISTICS

Panel dimensions and weight	1665 mm x 1001 mm x 42 mm (± 1 mm) / 22 kg
Type of cells	Multicrystalline or monocrystalline silicon
Dimensions and no. of cells/panel	156 mm x 156 mm / 60 cells (6 x 10)
Solar glass	Tempered glass, antireflex, thickness: 4 mm
Junction Box	TYCO IP 65 (optional: KOSTAL) • 3 bypass diodes
Connectors and cabling	TYCO (optional: MC4) Cable length: 2 x 1 m Fast, safe connection with polarizing slot
Encapsulation	High transparence EVA film
Frame	Rustproof anodised aluminium 20 μ m • Holes for grounding and drainage
Frame color	Grey or black
Backsheet color	Transparent or black
Operating temperature range	-40°C to +85°C
Maximum wind load	2400 Pa
Maximum snow load	5400 Pa
Impact resistance	Hail: 25 mm \varnothing with impact speed of 83 km/h
Electric safety	Class II



ELECTRICAL DATA

	VSPS Transparent		VSMS Transparent			VSMS All Black		
	245	250	250	255	260	250	255	260
Peak Power Watts (WP)	245	250	250	255	260	250	255	260
Power output tolerance (W)	0 to +4,99		0 to +4,99			0 to +4,99		
Efficiency (%) ¹	14,7 %	15,0 %	15,0 %	15,3 %	15,6 %	15,0 %	15,3 %	15,6 %
Maximum power voltage V _{max} (V) ¹	30,62	30,70	31,10	31,40	31,50	31,10	31,40	31,50
Maximum power current I _{mpp} (A) ¹	8,00	8,12	8,05	8,16	8,26	8,05	8,16	8,26
Open circuit voltage Voc (V) ¹	37,62	37,32	38,30	38,50	38,50	38,30	38,50	38,50
Short-circuit current I _{sc} (A) ¹	8,44	8,54	8,57	8,69	8,80	8,57	8,69	8,80
Maximum system voltage (V)	1000		1000			1000		

¹Mean values of range modules.

Values at Standard Test Conditions (STC): Irradiance 1000W/m² - Air mass AM: 1.5, cell temperature 25°C, EN 60904-3 standard.

VSMS panels also available with BOSCH cells.

TEMPERATURE COEFFICIENTS

	VSPS Transparent	VSMS Transparent	VSMS All Black
Power	- 0.409 %/K	- 0.409 %/K	- 0.410 %/K
Voc	- 107 mV/K	- 107 mV/K	- 128 mV/K
Isc	4.4 mA/K	4.4 mA/K	3.9 mA/K



European production certified by TÜV, in accordance with Italy GSE Conto Energia



Munich RE insured

IEC 61215,
IEC 61730-1 and 2.



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