

Vertex S

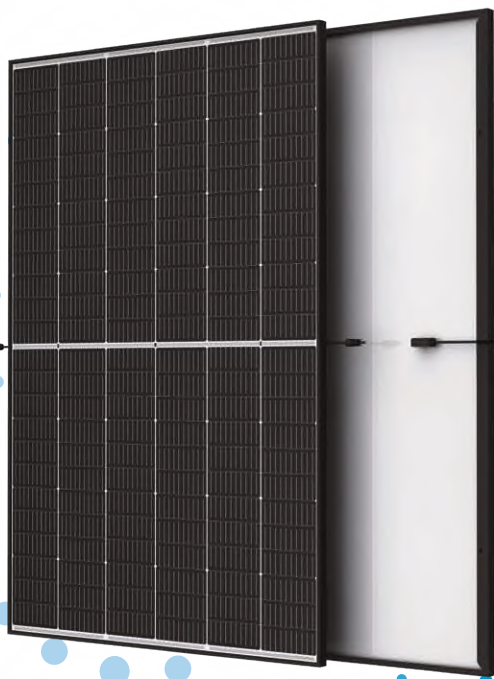
BACKSHEET MONOCRYSTALLINE MODULE

: TSM-DE09R.08
: 415-435 W

435 W+

0/+5 W

21.8 %



435

21,8 %

(IAM)



6,000 a ()
4,000 a ()

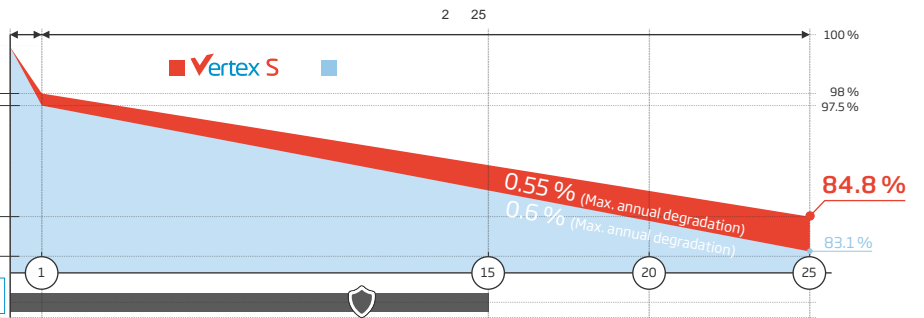
2 %

0.55 %

15 Years

2 25

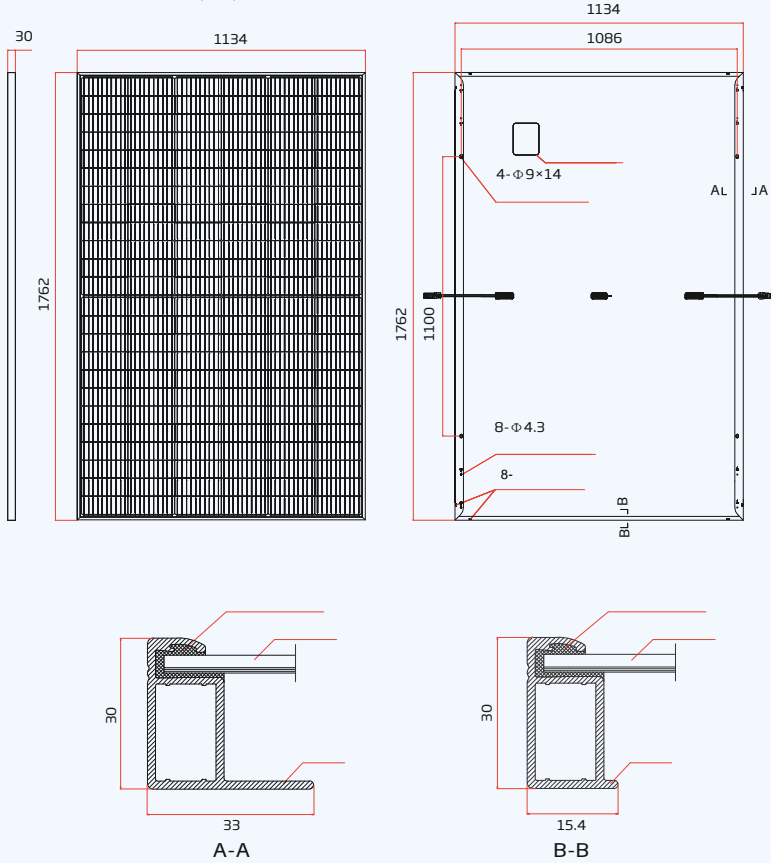
Vertex S



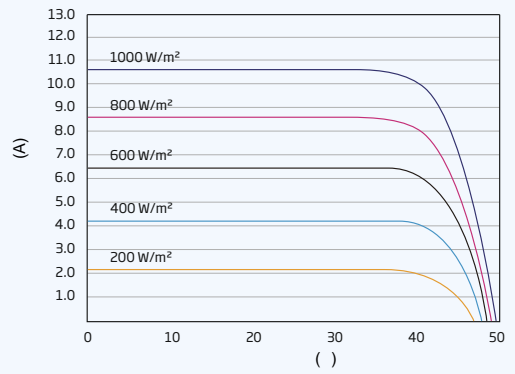
IEC61215/IEC61730/IEC61701/IEC62716
ISO 9001: Quality Management System
ISO 14001: Environmental Management System
ISO14064: Greenhouse Gases Emissions Verification
ISO45001: Occupational Health and Safety Management System



PV ()

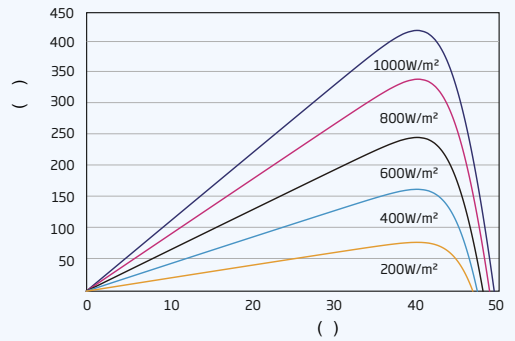


(420)



P-V

(420)



(STC) TSM-415 DE09R.08 TSM-420 DE09R.08 TSM-425 DE09R.08 TSM-430 DE09R.08 TSM-435 DE09R.08

P_{MAX} (W)	415	420	425	430	435
P_{MAX} (W)	0/+5	0/+5	0/+5	0/+5	0/+5
V_{MPP} (V)	41.0	41.3	41.5	41.8	42.0
I_{MPP} (A)	10.11	10.17	10.24	10.30	10.36
V_{OC} (V)	49.4	49.7	49.9	50.3	50.6
I_{SC} (A)	10.64	10.69	10.74	10.81	10.86
η (%)	20.8	21.0	21.3	21.5	21.8

STC: 1000 W/m², 25 °C, AM1.5*

(NOCT) TSM-415 DE09R.08 TSM-420 DE09R.08 TSM-425 DE09R.08 TSM-430 DE09R.08 TSM-435 DE09R.08

P_{MAX} (W)	313	317	321	325	329
V_{MPP} (V)	38.5	38.8	39.1	39.4	39.6
I_{MPP} (A)	8.13	8.17	8.21	8.26	8.30
V_{OC} (V)	46.5	46.7	46.9	47.3	47.6
I_{SC} (A)	8.58	8.62	8.66	8.71	8.75

NOCT: 800 W/m², 20 °C, 1 m/s

Weight	144
Dimensions	1762×1134×30 mm
Weight	21.8 kg
Weight	3.2 kg
Material	EVA/POE
Thickness	30
J-Box	IP 68
Dimensions	1100/1100
Dimensions	280/350
Material	TS4/MC4 EVO2*

NOCT	43 °C (±2 K)	-40 to +85 °C
P_{MAX}	-0.34%/K	1500 V DC (IEC)
V_{OC}	-0.25%/K	20 A
I_{SC}	0.04%/K	
	15	36
	25	40
2%		936
0.55%		