



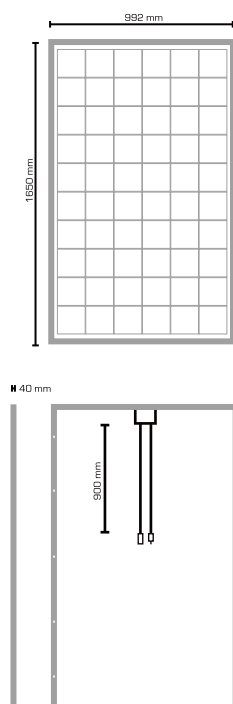
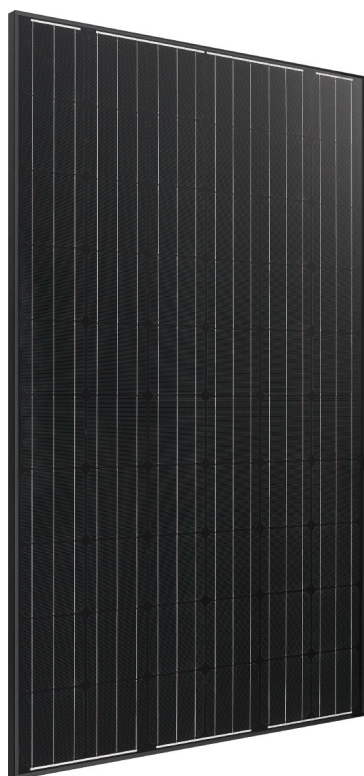
Bundesministerium
für Wirtschaft
und Technologie



ELECTRICAL DATA

All technical data at standard test condition AM=1.5 E=1000/m² TC=25°C

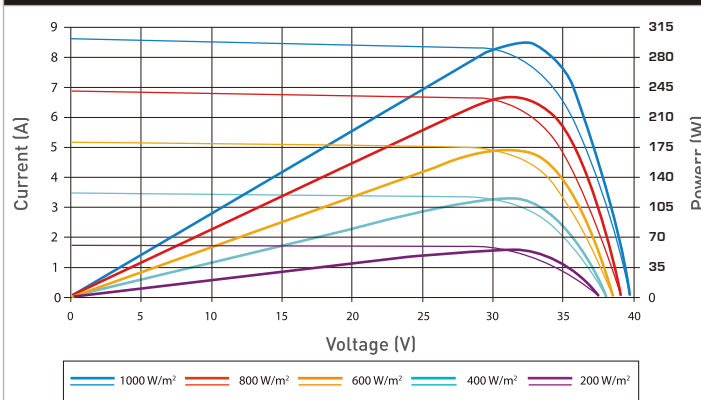
Module Type		HS270M-30D	HS280M-30D	HS290M-30D	HS300M-30D	HS310M-30D	HS320M-30D
Peak Power	Pmax	270W	280W	290W	300W	310W	320W
Rated Voltage	Vmpp	32.03V	31.64V	31.98V	32.54V	33.13V	34.01V
Rated Current	Imp	8.43A	8.58A	9.07A	9.22A	9.36A	9.41A
Open Circuit Voltage	Voc	38.6V	39.24V	39.58V	40.11V	40.73V	41.55V
Short Circuit Current	Isc	9.09A	9.24A	9.46A	9.61A	9.74A	9.77A
Series Fuse Rating		20A	20A	20A	20A	20A	20A
Maximum System Voltage	TÜV	1500V DC					
Temperature Coefficients	Power(P)	-0.43%/°C	Voltage(Voc)	-0.32%/°C	Current(Isc)	0.05%/°C	
NOCT		45°C +/- 2°C					



MECHANICAL CHARACTERISTICS

Solar Cell	monocrystalline (156 x 156 mm)
Cells Quantity	60 (6 x 10)
Dimensions	1650 x 992 x 40 mm
Weight	19.5 kg
Glass	3.2 mm tempered glass
Frame	anodized aluminium alloy
Junction Box	TÜV Certified IP68
Output Cables	1100 mm / 4.0 mm ²

I-V CURVE



WARRANTY & CERTIFICATES

Warranty period	12 years
Guaranteed power output	12 years: 90% of nominal power rating 25 years: 80% of nominal power rating
Certificates	TÜV SÜD, TÜV NORD, IEC 61215, IEC 61730, CE, ISO, CEC:Fire Texted, UL, Energie Effizienz, CHUBB, GIORDANO

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