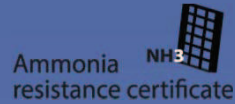
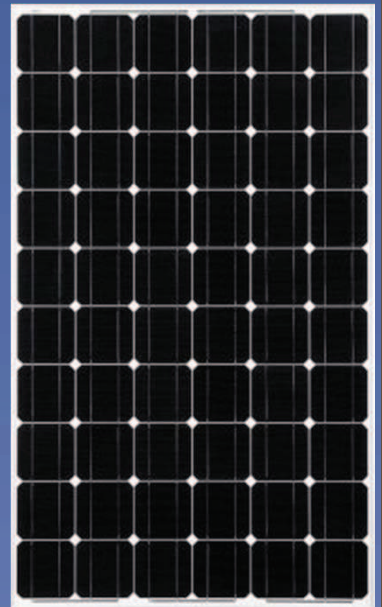


WNS 280 M60

Monocrystalline photovoltaic module



Electrical Data

WNS 280 M60

Maximum Power	P_{ma}	280 Wp
	x	
Nominal Voltage	V_{mp}	31,82 V
	p	
Short circuit current	I_{sc}	9,35 A
Maximum power point current	I_{mp}	8,80 A
	p	
Open circuit voltage	V_{oc}	38,8 V
Module efficiency	%	17,40%
Performance Tolerance	P	0Wp... + 5Wp
	(Wp)	
Nr of cells		60 pcs
Cells		Monocrystalline Si

Limit values

Maximum system voltage SCII	(V_d)	1000 V _{dc}
	c)	
Maximum reverse current	(A)	15 A
NOCT (800 W/m ² , 20°C, AM 1.5, 1 m/s)	(°C)	+43°C +/-2°C
)	

Thermal characteristics

Voltage	V_{oc}	-0,34% / °C
Current	I_{sc}	+0,05% / °C
Output	P_{mp}	-0,41% / °C
	p	
Load/dynamic load	P_a	5400 Pa
Number of bypass diodes	N.	3
Operating range	N.	-40°C a +85°C

Physical Characteristics

Dimensions (L x W x H)	(m m)	1640 x 992 x 38 mm
Weight	(Kg totali)	18 Kg
Junction Box	Protection degree IP67 - 3 bypass diodes - MC4 connector compatible	
Cables	Conductor section 4 mm ² , length 1 m (MC4)	

Irradiance Dependence

	1000 W/m ²	800 W/m ²	600 W/m ²	400 W/m ²
I _{sc}	0 %	-19,6 %	-39,5 %	-59,2 %
V _{oc}	0 %	-1,38 %	-3,05 %	-5,9 %

General data

Frontside	Low-reflection 3,2 mm tempered glass
Frame	38 mm silver anodized aluminium frame
Cells	60 monocrystalline high efficiency cells 156 mm x 156 mm (6")
Elements	Made in EU elements (glass, frame, cables...)

