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Solar Panel Guide Specification Data Sheet

Energy Research Institute B.V.

ER-310FM

ER-310FM

Also available on the web at
EnergyPal.com/energy-research-institute-b-v-solar-panels/er-310fm

ELECTRICAL PERFORMANCE

Electrical Parameters Standard Test Conditions	Model
Module Type	ER-310FM Mono
Power Output	310
Power Tolerance	
Module Efficiency	18.94
Voltage at Pmax	32.9
Current at Pmax	9.42
Open-Circuit Voltage	40.4
Short-Circuit Voltage	9.83
STC: 1000w/m ² irradiance, 25°C module temperature, AM1	

OPERATING CONDITIONS

Max. System Voltage	1000V
Max. Series Fuse Rating	15A
Operating Temperature Range	-40°C ~ 85°C
Max static snow load	5400Pa
Max static wind load	3800Pa
Application Class	A

CONSTRUCTION MATERIALS

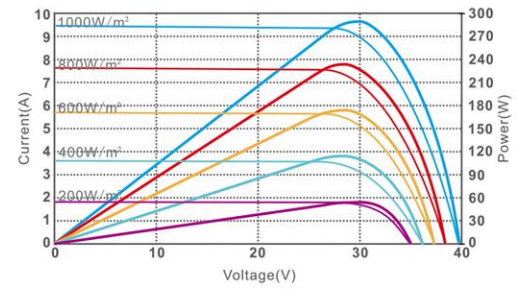
Front Cover(material/type/thickness)	low-iron tempered glass/3.2mm
Cell(quantity/material/type/dimension)	60/monocrystalline/156.75x156.75mm
Encapsulant(material)	ethylene vinyl acetate(EVA)
Frame(material/anodization color)	anodized aluminum alloy/silver or black
Junction Box(Protection degree)	IP67
Cable(length/cross-sectional area)	900mm/4mm ²
Plug Connector	MC4 compatible

GENERAL CHARACTERISTICS

Dimension(L/W/H)	1650/992/35mm
Weight	18.5kg

I-V CURVE

I-V characteristics at different irradiances



I-V characteristics at different temperature

