ENFROS

CREATING VALUE, WATT BY WATT

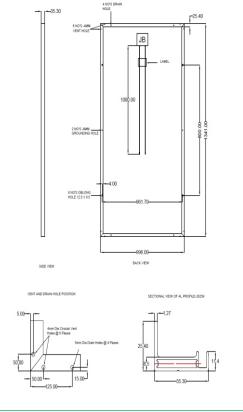


POLYCRYSTALLINE SOLAR PV MODULES | 72 CELLS | 180 WATT

MINITHRON SERIES

4BB SERIES

Model Type	EFS12180MF72
Electrical Data: at Standard test condition (STC)*
Maximum power (P _{max})	180 W
Open circuit voltage (V _{oc})	22.32 V
Short circuit current (I _{sc})	10.60 A
Voltage at P _{max} (V _{mp})	18.5 V
Current at P _{max} (I _{mp})	9.73 A
Tolerance at P _{max}	±3% WP
Thermal Data:	
Temperature coefficient of V _{oc}	-0.36 %/K
Temperature coefficient of I _{sc}	0.06 %/K
Temperature coefficient of P _{max}	-0.43 %/K
Normal operating cell temperature	47±2 °C
Mechanical Data:	
Cell type	Multi Crystalline
Solar cell per module	72
Module dimensions L x W x T, mm	1341 x996 x 35.30
Mounting hole pitch (Y)	800mm
Mounting hole pitch (X)	962mm
Mounting hole size (A)	12 x 8.5mm oblong holes at 4 places
Grounding Hole Size (B)	6mm dia circular @ 2 places
Module weight, Kg	15.12
Module area, m²	1.34
Junction box	IP67 With 3 diode
Cables & Plug	MC4
Front cover	3.2 Toughened textured low iron glass
Embedding	EVA (ethylene vinyl acetate)
Permissible operating conditions:	
Operating temperature range	-40 °C TO 85 °C
Maximum system voltage	1000 VDC
Application class	A
Warranty and Certifications	
Product Warranty	10 years on materials & workmanship
Perfarmance Warranty	25 years linears power out put







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ENFROS TECHNOLOGIES PVT. LTD.