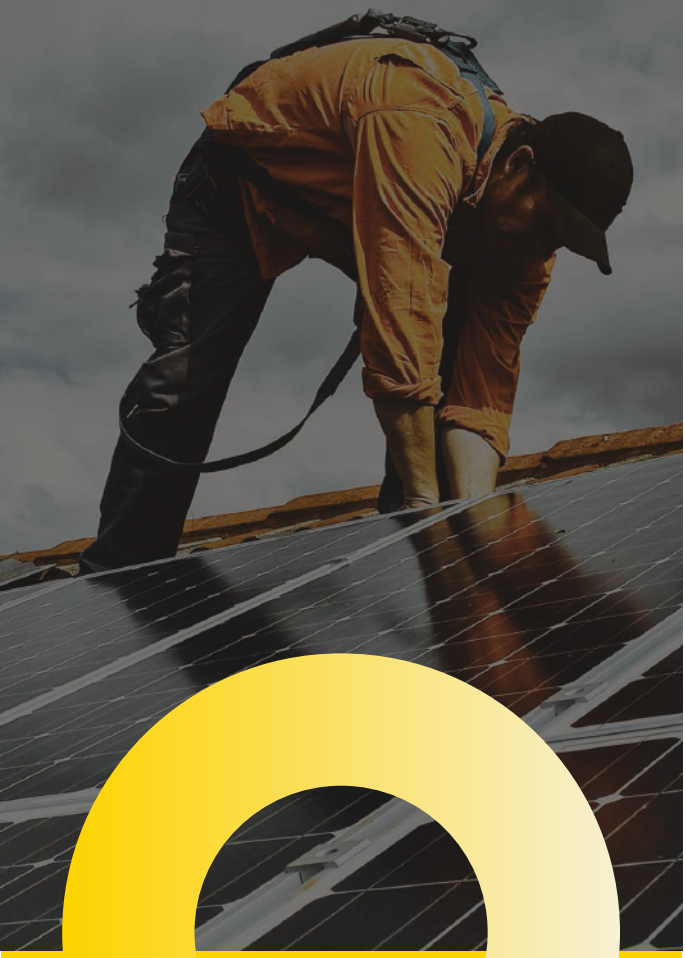
SOLARBORN
BORN FOR THE SUN



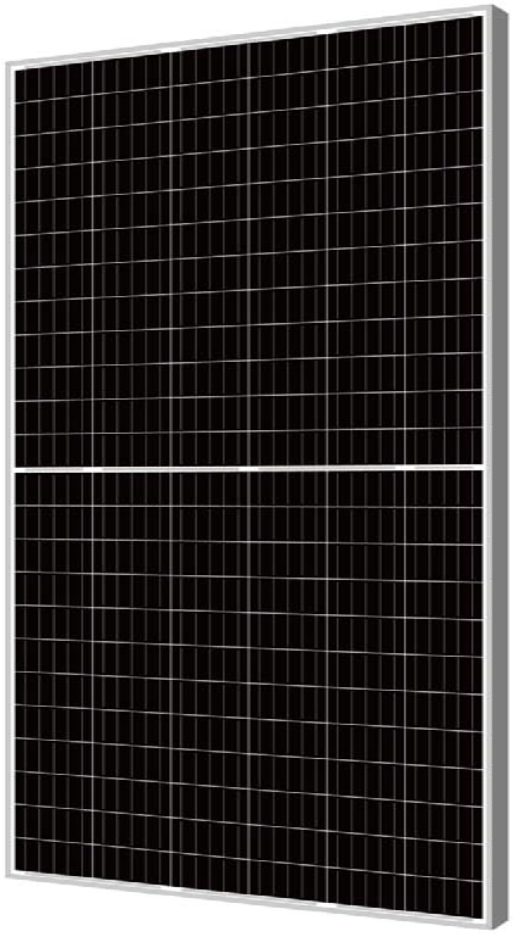
MONO 144 SERIES

SLB144M7-415

Monocrystalline

PV Module

©COPYRIGHT 2021 SOLARBORN



PID FREE
POTENTIAL INDUCED DEGRADATION (PID) FREE GUARANTEED

LONG-TERM STABLE POWER OUTPUT
RELIABLE QUALITY LEADS TO A BETTER SUSTAIN-ABILITY EVEN IN HARSH ENVIRONMENT LIKE DESERT, FARM AND COASTLINE

HIGH EFFICIENCY POSITIVE TOLERANCE
STABLE PANELS WITH HIGH EFFICIENCY, PERC CELLS

EXCELLENT RESISTANCE AGAINST EXTREME WEATHER
POWER OUTPUT IN WEAK LIGHT CONDITION, SUCH AS HAZE, CLOUDY, AND MORNING

LOW CARBON EMISSION
SOLAR POWER IS THE CLEAN AND RENEWABLE ENERGY
LOW CARBON EMISSION GREAT FOR ENVIRON-

COST EFFICIENCY
COST EFFICIENCY CAN BE ESTIMATED FOR FUTURE INCOME

12 YEARS
LIMITED PRODUCT WARRANTY

25 YEARS
LIMITED POWER WARRANTY

ELECTRICAL CHARACTERISTICS

MODULE TYPE	SLB144M7-415
MAXIMUM POWER(W)	415
TOLERANCE WATTAGE(W)	0~+5
OPTIMUM POWER VOLTAGE(VMP)	42.13
OPTIMUM OPERATING CURRENT(IMP)	9.85
OPEN CIRCUIT VOLTAGE(VOC)	50.12
SHORT CIRCUIT CURRENT(ISC)	10.44
MODULE EFFICIENCY (%)	20.50

STC: LRRADIANCE 1000 W/M2, MODULE TEMPERATURE 25 °C, AM=1.5
THE DATA ABOVE IS FOR REFERENCE ONLY AND THE ACTUAL DATA IS ACCORDANCE WITH THE PRATICAL TESTING

TEMPERATURE CHARACTERISTICS

NOCT	45°C+/-2°C
TEMPERATURE COEFFICIENTS OF ISC(%)°C	0.046
TEMPERATURE COEFFICIENTS OF VOC(%)°C	-0.266
TEMPERATURE COEFFICIENTS OF PM(%)°C	-0.354

MECHANICAL CHARACTERISTICS

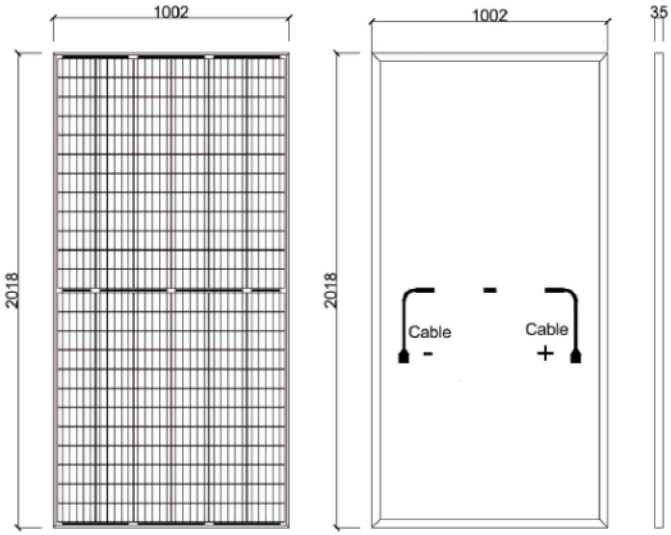
NUMBER OF CELL(PCS)	144(6X24) pcs
SIZE OF MODULE(MM)	2018x1002x35mm
FRONT GLASS THIKNESS(MM)	anti-reflective 3.2mm
SURFACE MAXIMUM LOAD CAPACITY	5400PA
ALLOWABLE HAIL LOAD	23m/s 25mm
WEIGHT PER PIECE(KG)	22.5kg
JUNCTION BOX TYPE	Protection class IP68,3 diodes
CABLE & CONNECTOR TYPE	300mm/4mm²; MC4 Compatible
FRAME(MATERIAL CORNERS,ETC.)	35#
TEMPERATURE RANGE	-40°C TO +85°C
FF (%)	70-79%
MAXIMUM SYSTEM VOLTAGE	1500V DC

PACKING

PACKING	CARTON BOX
1*20FT	5PALLETS/155PCS
1*40'HQ	22PALLETS/748PCS

BORN FOR THE SUN

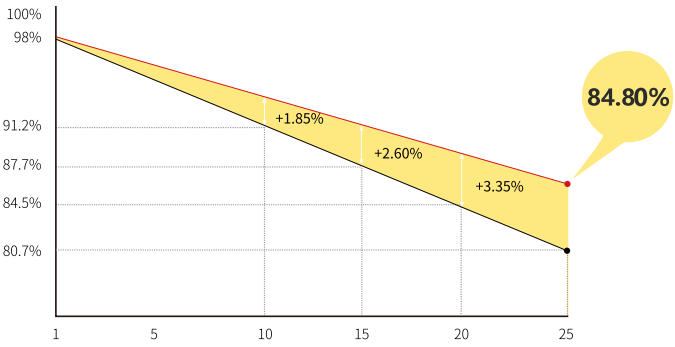
DRAWING



INFORMATION ON HOW TO INSTALL AND OPERATE THIS PRODUCT IS AVAILABLE IN THE INSTALLATION INSTRUCTION.

©SOLARBORN ALL RIGHTS RESERVED.
SPECIFICATIONS INCLUDED IN THIS DATA SHEET ARE SUBJECT TO CHANGE WITHOUT NOTICE.

25-Year Excess Linear Power Output Warranty



CERTIFICATIONS
AND STANDARDS
IEC61215 IEC61730