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Specification subject to technical changes and tests.  
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### 325W PERC Smart Black Module

JAM60S16 305-325/PR Series

#### Introduction

JA smart modules incorporate innovative power electronics from SolarEdge to achieve module-level diagnostics, maximum energy harvest through module level DC power optimization, and reduction of arc, fire and safety hazards. Integration of the module optimizer into the junction box allows longer strings and significant balance-of-system (BOS) savings.



Safer solar



More efficient O&M



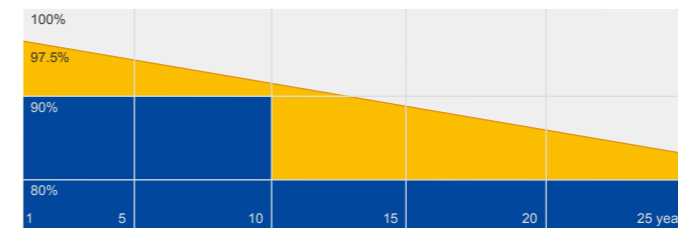
Flexible system assembly



Maximized energy Harvest

#### Superior Warranty

- 12-year product warranty
- 25-year linear power output warranty



■ JA Linear Power Warranty ■ Industry Warranty

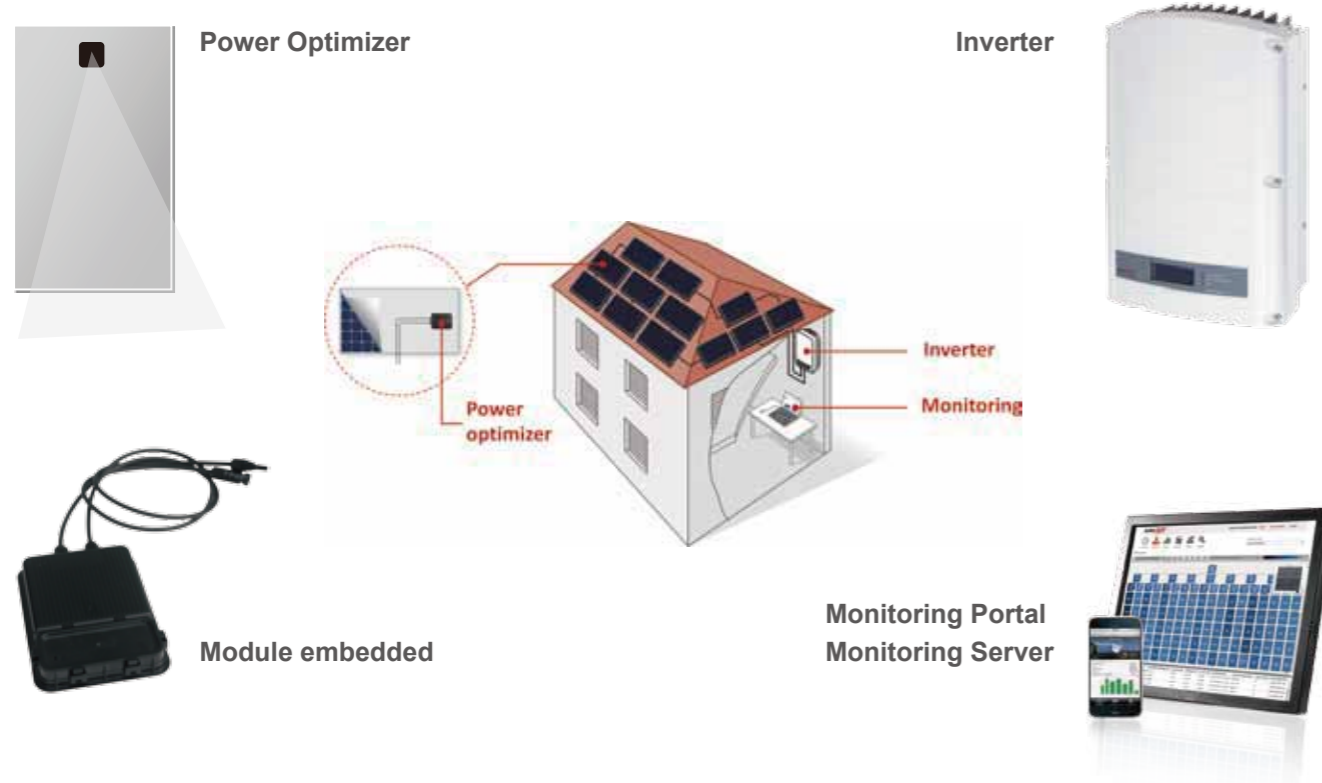
#### Comprehensive Certificates

- IEC 61215, IEC 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- OHSAS 18001: 2007 Occupational health and safety management systems
- IEC TS 62941: 2016 Terrestrial photovoltaic (PV) modules – Guidelines for increased confidence in PV module design qualification and type approval



**SYSTEM ARCHITECTURE**

JA smart system components work together with any inverter to maximize energy harvest. JA smart modules can communicate by electrical line, allowing users to monitor system performance in real time.



**STRING LENGTHS(computed automatically by SolarEdge Site Designer)**

Module Power	305	310	315	320	325
MINIMUM string size with SolarEdge inverter	1ph		8		
	3ph			16	
	3ph-MV				16
MAXIMUM string size with SolarEdge inverter	1ph	17	16	16	16
	3ph	36	36	35	34
	3ph-MV	41	41	40	39
String size with Non-SolarEdge	According to inverter design rules				

**OUTPUT VOLTAGES AND CURRENTS**

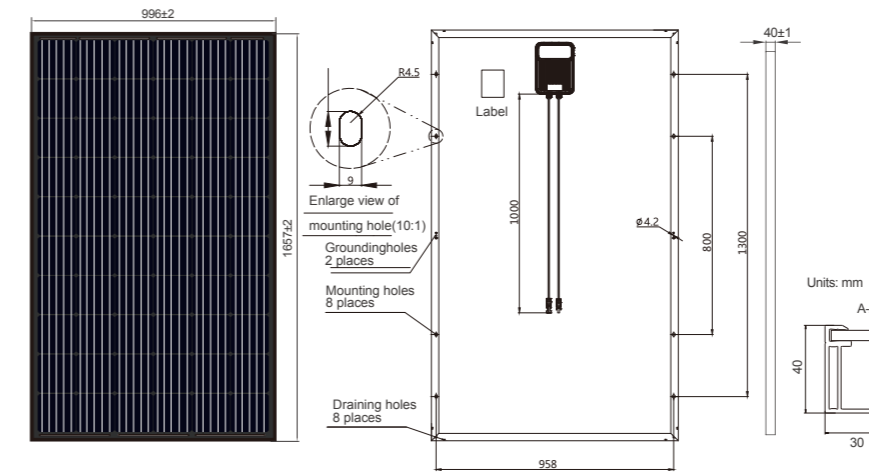
Operating Output Voltage when connected to SolarEdge Inverter	5-60	Vdc
Operating Output Voltage when connected to Non-SolarEdge Inverter	5-Voc of module	Vdc
Maximum Output Current when connected to SolarEdge Inverter	15	Adc
Maximum Output Current when connected to Non-SolarEdge Inverter	10	Adc
Output in Standby mode with SolarEdge inverter or with SMI and Non-SolarEdge inverter (when disconnected from inverter or inverter off)	1	Vdc

**STANDARD COMPLIANCE**

Fire Safety	VDE-AR-E 2100-712:2013-05
PV Junction Box Safety	IEC62109-1 (class II safety, TUV-SUD), UL1741 (TUV-Rheinland & CSA)
PV Junction Box	EN50548 (TUV-SUD), UL3730 (TUV-Rheinland & CSA)

Premium Cells, Premium Modules

**MECHANICAL DIAGRAMS**



Remark: customized frame color and cable length available upon request

**SPECIFICATIONS**

Cell	Mono
Weight	18.9kg±3%
Dimensions	1657±2mm×996±2mm×40±1mm
Cable Cross Section Size	6mm <sup>2</sup>
No. of cells	60(6x10)
Junction Box	Solar edge smart J-Box
Connector	MC4
Packaging Configuration	27 Per Pallet

**ELECTRICAL PARAMETERS AT STC**

TYPE	JAM60S16 -305/PR	JAM60S16 -310/PR	JAM60S16 -315/PR	JAM60S16 -320/PR	JAM60S16 -325/PR
Rated Maximum Power(Pmax) [W]	305	310	315	320	325
Open Circuit Voltage(Voc) [V]	40.02	40.30	40.53	40.78	41.04
Maximum Power Voltage(Vmp) [V]	32.31	32.60	32.89	33.17	33.44
Short Circuit Current(Isc) [A]	9.97	10.04	10.11	10.18	10.25
Maximum Power Current(Imp) [A]	9.44	9.51	9.58	9.65	9.72
Module Efficiency [%]	18.5	18.8	19.1	19.4	19.7
Power Tolerance	0~+5W				
Temperature Coefficient of Isc(α_Isc)	+0.060%/°C				
Temperature Coefficient of Voc(β_Voc)	-0.300%/°C				
Temperature Coefficient of Pmax(γ_Pmp)	-0.370%/°C				
STC	Irradiance 1000W/m <sup>2</sup> , cell temperature 25°C, AM1.5G				

Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer.They only serve for comparison among different module types.

**ELECTRICAL PARAMETERS AT NOCT**

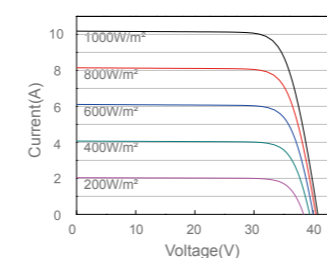
TYPE	JAM60S16 -305/PR	JAM60S16 -310/PR	JAM60S16 -315/PR	JAM60S16 -320/PR	JAM60S16 -325/PR
Rated Max Power(Pmax) [W]	226	229	233	237	241
Open Circuit Voltage(Voc) [V]	37.64	37.95	38.25	38.56	38.85
Max Power Voltage(Vmp) [V]	30.34	30.67	31.00	31.32	31.64
Short Circuit Current(Isc) [A]	7.88	7.93	7.97	8.01	8.05
Max Power Current(Imp) [A]	7.44	7.48	7.52	7.56	7.60
NOCT	Irradiance 800W/m <sup>2</sup> , ambient temperature 20°C, wind speed 1m/s, AM1.5G				

**OPERATING CONDITIONS**

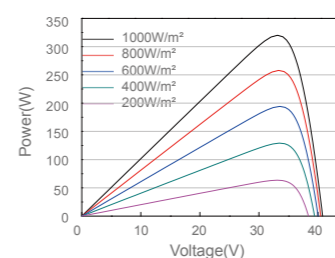
Maximum System Voltage	1000V DC(IEC)
Operating Temperature	-40°C~+85°C
Maximum Series Fuse	20A
Maximum Static Load,Front	5400Pa
Maximum Static Load,Back	2400Pa
NOCT	45±2°C
Application Class	Class A

**CHARACTERISTICS**

Current-Voltage Curve JAM60S16-320/PR



Power-Voltage Curve JAM60S16-320/PR



Current-Voltage Curve JAM60S16-320/PR

