

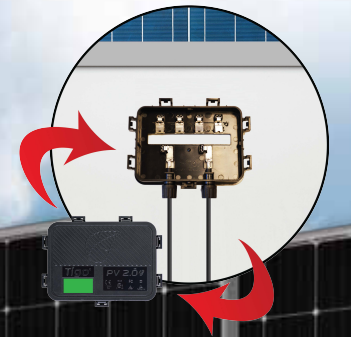
JA SOLAR



www.jasolar.com

Specifications subject to technical changes and tests.
JA Solar reserves the right of final interpretation.

Harvest the Sunshine



Mono

405W PERC Smart Module

JAM72S18 385-405/PR Series

Introduction

JA smart modules integrate Tigo's flexible module-level power electronics (Flex MLPE) to achieve module-level diagnostics, maximum energy harvest, DC power optimization, and compliant safety standards.

Tigo's integrated TS4-F (Fire Safety) is the most cost effective rapid shutdown solution that protects customers' solar investments by ensuring safety for the best asset management.



Compliant with NEC 2017
690.12 rapid shutdown



The most cost-effective
safety solution



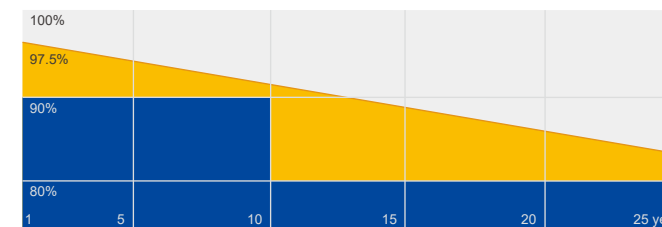
Integrated by the
manufacturer



Utilizes powerline communication
signaling

Superior Warranty

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



■ JA Linear Power Warranty ■ Industry Warranty

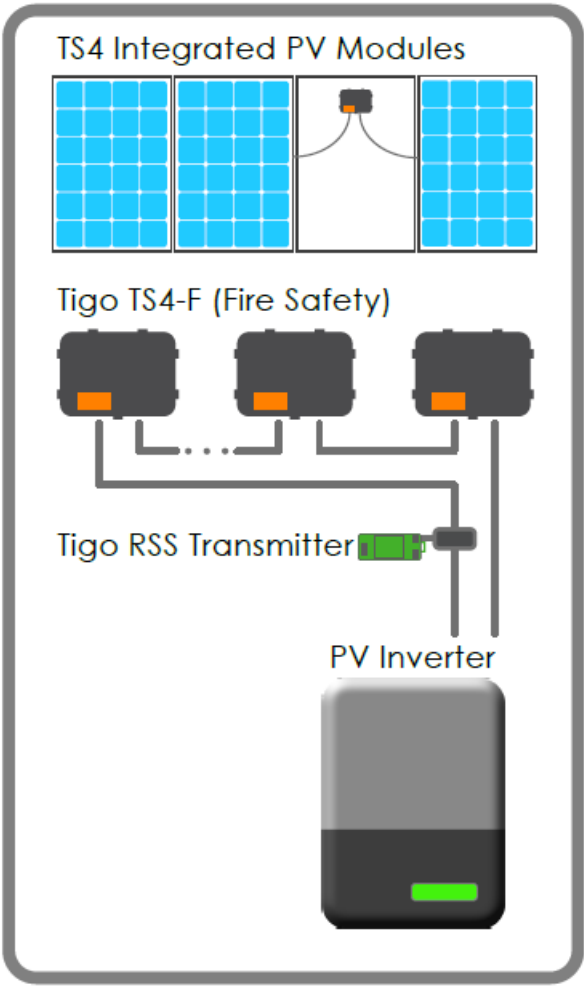
Comprehensive Certificates

- 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



SYSTEM ARCHITECTURE

JA smart modules integrated with Tigo's TS4-F (Fire Safety) is a rapid shutdown solution and also available as a add-on solution.



Tigo®



TS4-F (Fire Safety)



RSS Signal Detector



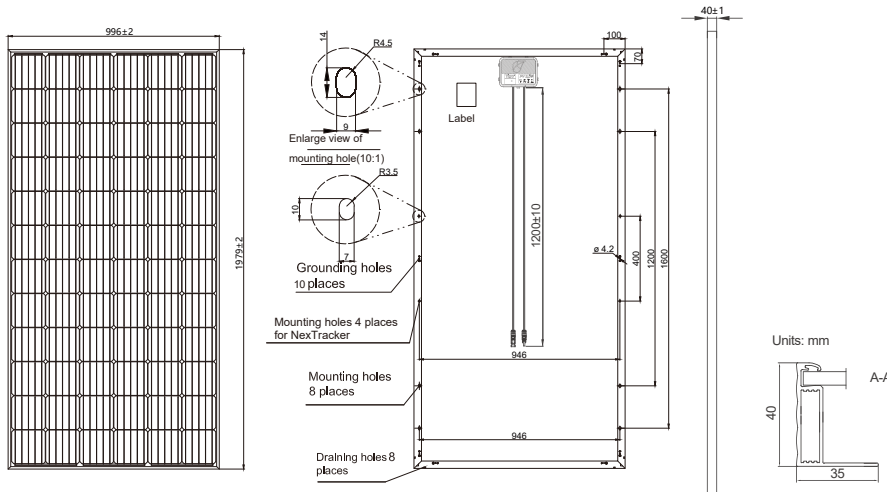
RSS Transmitter

SMART CURVE TECHNOLOGY

- Meets NEC 690.12 rapid shutdown requirements
- Module-level deactivation
- Over-temperature protection
- Automatic or manual shutdown
- Uses powerline communication signaling
- Available as a integrated or add-on solution
- Learn more at www.tigoenergy.com



MECHANICAL DIAGRAMS



Remark: customized frame color and cable length available upon request

ELECTRICAL PARAMETERS AT STC

TYPE	JAM72S18 -385/PR	JAM72S18 -390/PR	JAM72S18 -395/PR	JAM72S18 -400/PR	JAM72S18 -405/PR
Rated Maximum Power(Pmax) [W]	385	390	395	400	405
Open Circuit Voltage(Voc) [V]	49.04	49.35	49.64	49.92	50.23
Maximum Power Voltage(Vmp) [V]	39.90	40.21	40.48	40.78	41.08
Short Circuit Current(Isc) [A]	10.17	10.22	10.27	10.33	10.38
Maximum Power Current(Imp) [A]	9.65	9.70	9.76	9.81	9.86
Module Efficiency [%]	19.5	19.8	20.0	20.3	20.6
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/m², 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.

Measurement tolerance at STC: Pmax ±3 %, Voc ±2% and Isc ±4%

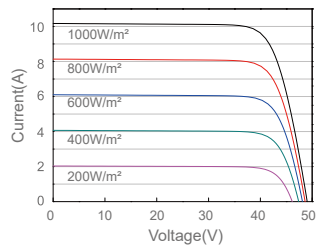
*For NexTracker installations static loading performance: front load measures 2400Pa, while back load measures 2400Pa.

ELECTRICAL PARAMETERS AT NOCT

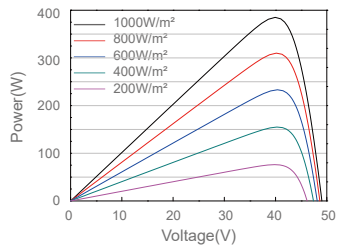
TYPE	JAM72S18 -385/PR	JAM72S18 -390/PR	JAM72S18 -395/PR	JAM72S18 -400/PR	JAM72S18 -405/PR	OPERATING CONDITIONS	
Rated Max Power(Pmax) [W]	285	289	292	296	300	Maximum System Voltage	1000V DC(IEC)
Open Circuit Voltage(Voc) [V]	46.47	46.78	47.09	47.39	47.68	Operating Temperature	-40°C~+85°C
Max Power Voltage(Vmp) [V]	37.64	37.92	38.21	38.49	38.72	Maximum Series Fuse	20A
Short Circuit Current(Isc) [A]	8.03	8.07	8.11	8.15	8.19	Maximum Static Load, Front	3600Pa, 1.5
Max Power Current(Imp) [A]	7.57	7.61	7.65	7.69	7.74	Maximum Static Load, Back	1600Pa, 1.5
NOCT	Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s, AM1.5G					NOCT	45±2°C
						Application Class	Class A

CHARACTERISTICS

Current-Voltage Curve JAM72S18-385/PR



Power-Voltage Curve JAM72S18-385/PR



Current-Voltage Curve JAM72S18-385/PR

