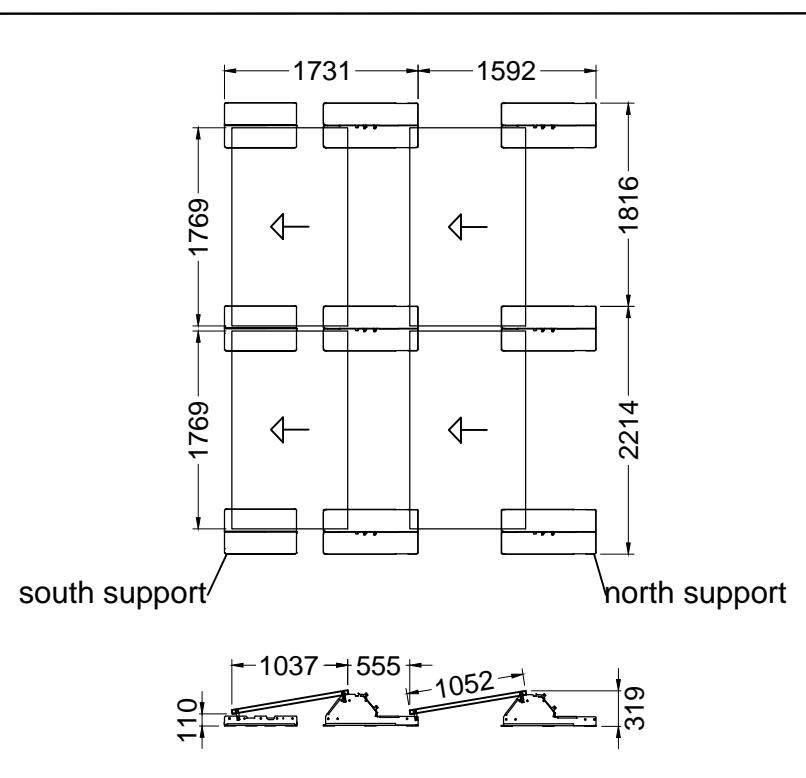
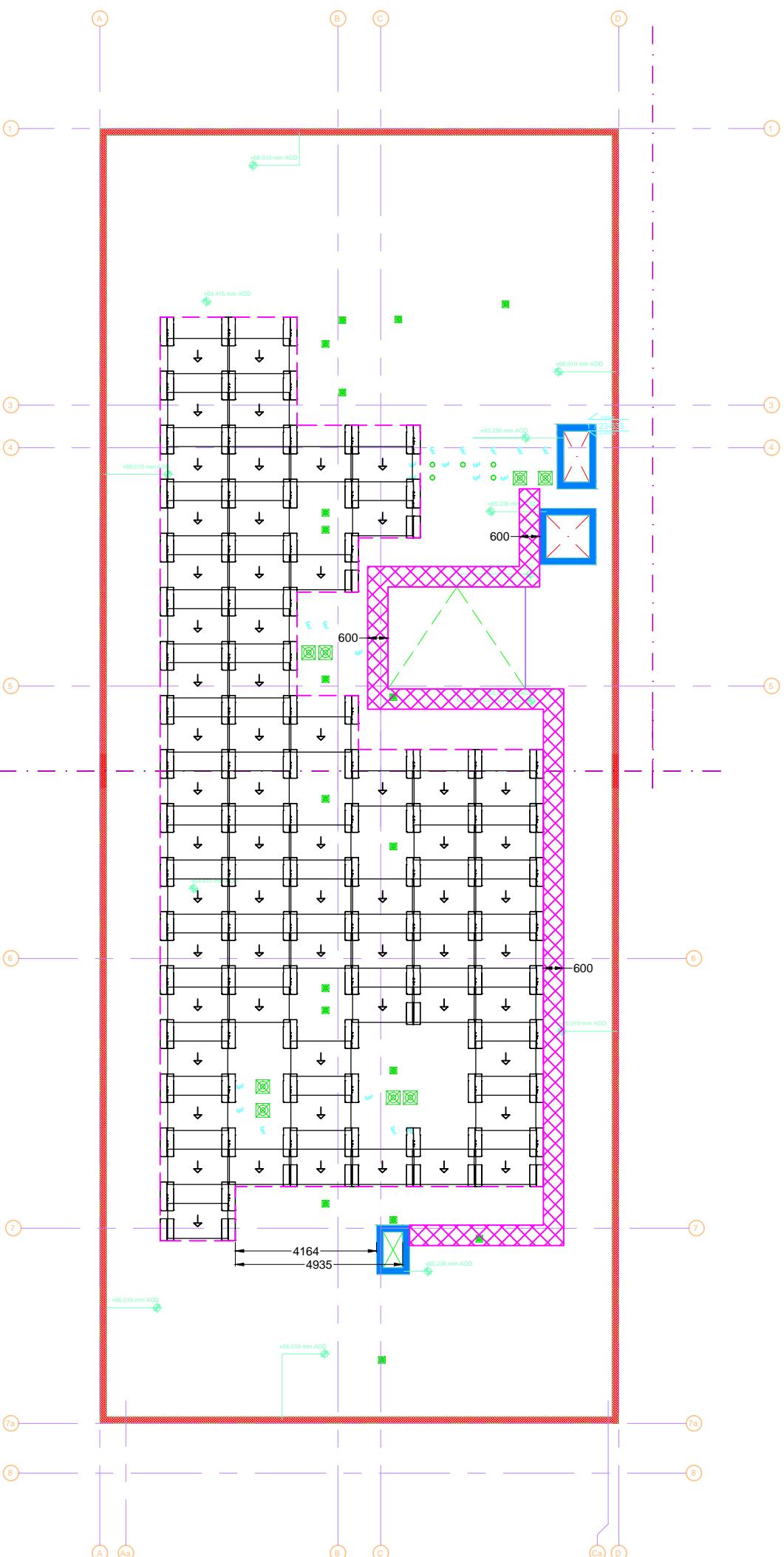


Project Details		
Project Name		
Nestle Block 3		
Project Address		
Barratt London		
Hayes Village Site		
Nestle Avenue		
Hayes. UB3 4QE		
Drawing Number	Date	
DA014	19/01/2023	
Revision	Drawn by	Ckd. by
C	D AUGER	DA



**CONFIDENTIAL**  
**PROPOSAL ONLY**

### PB III HD Layout

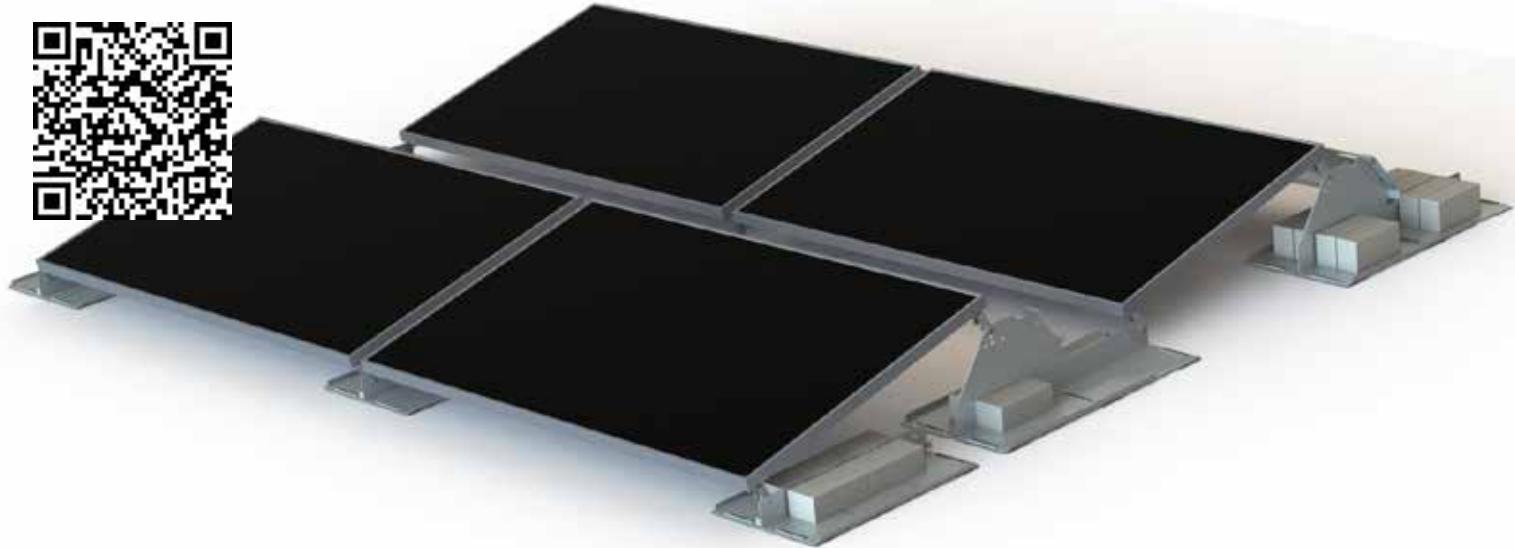


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Roof mounted systems are subject to structural survey. Information is correct according to submitted checklist and is subject to change. Please refer to the system Mounting Instructions, failure to do so will void warranties. This drawing, with respect to this project is prepared upon the assumption that Sunfixings' products will be used and that they are not intended for any other use. Consequently, Sunfixings cannot accept any responsibility for the use of and/or reliance upon this drawing by third parties. All third parties should calculate their own specifications and drawings in order to ensure these are correct for their own products. Do not scale from this drawing. All dimensions are indicative only and are in mm unless otherwise stated. Do not use any dimensions without checking on site. The drawing is copyright of Sunfixings and these drawings must not be used or replicated without Sunfixings' written consent.

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## LIGHT TEGRA

We can supply the system with the ballast.

We protect the existing roof by applying a separation layer to the bottom of the support prior to delivery.

The support design allows rainwater to flow freely around.

The wide supports help to avoid heavy point loading.

**9.70kg/m<sup>2</sup>**

Weight (exc. ballast)

**1°-5°**

Suitable roof pitch

**10°-12°**

Module angle available

**Landscape**

Module orientation

**Membrane, PVC, bitumen & concrete**  
Suitable roof coverings

**Stainless & galvanised steel**  
Material

+44 (0) 1451 824 312  
info@sunfixings.co.uk

R3 Bourton Industrial Park, Bourton on the Water, Cheltenham, Glos, GL54 2HQ, UK

**WWW.SUNFIXINGS.CO.UK**

V082018



Date: 25/01/2023

Checked By: AG

dMFK

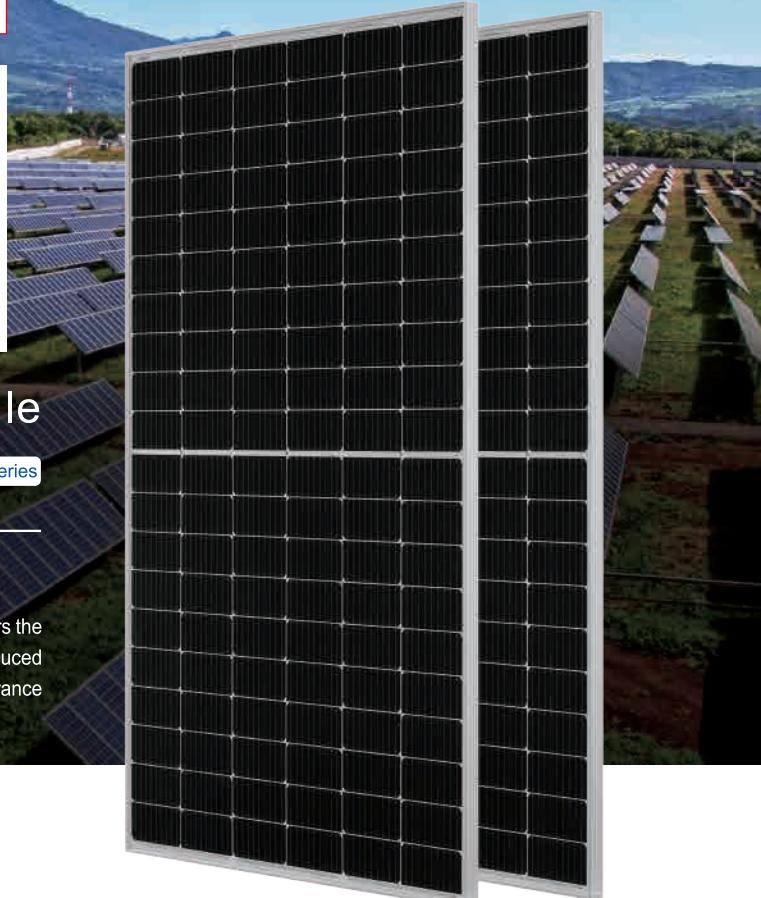
Status A: No comments

Status B: Incorporate comments and resubmit

Status C: Reject for reasons noted, revise and resubmit

## Harvest the Sunshine

Status A has to be understood as 'No comments provided' to this document. dMFK doesn't have expertise in these regards hence we decline any responsibility about the choice of the product. Please seek comments/approval from OCSC and Gravity.



**Mono**

### 390W MBB Half-Cell Module JAM60S20 365-390/MR Series

#### Introduction

Assembled with multi-busbar PERC cells, the half-cell configuration of the modules offers the advantages of higher power output, better temperature-dependent performance, reduced shading effect on the energy generation, lower risk of hot spot, as well as enhanced tolerance for mechanical loading.



Higher output power



Lower LCOE



Less shading and lower resistive loss

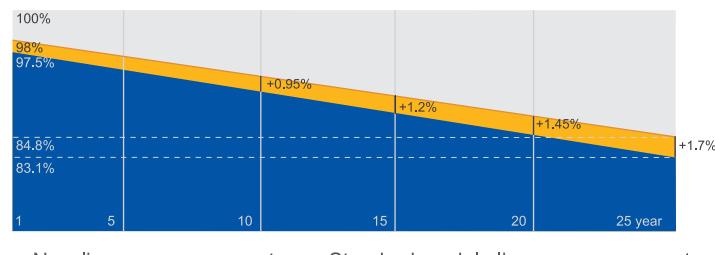


Better mechanical loading tolerance

#### Superior Warranty

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

0.55% Annual Degradation  
Over 25 years



#### Comprehensive Certificates

- IEC 61215, IEC 61730, UL 61215, UL 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 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



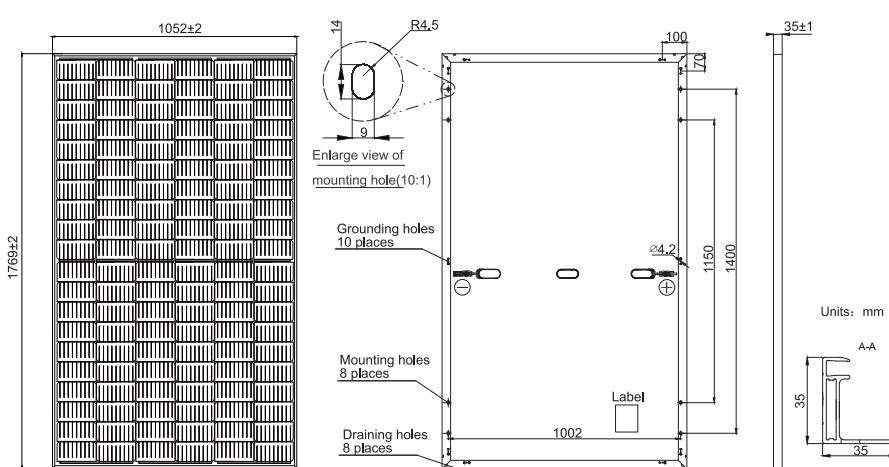
**JA SOLAR**

[www.jasolar.com](http://www.jasolar.com)

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



## MECHANICAL DIAGRAMS



## SPECIFICATIONS

Cell	Mono
Weight	20.5kg±3%
Dimensions	1769±2mm×1052±2mm×35±1mm
Cable Cross Section Size	4mm <sup>2</sup> (IEC), 12 AWG(UL)
No. of cells	120(6×20)
Junction Box	IP68, 3 diodes
Connector	MC4(1000V) MC4-EVO2(1500V)
Cable Length (Including Connector)	1200mm(+)/1200mm(-)
Packaging Configuration	31pcs/Pallet 806pcs/40ft Container

Remark: customized frame color and cable length available upon request

## ELECTRICAL PARAMETERS AT STC

TYPE	JAM60S20 -365/MR	JAM60S20 -370/MR	JAM60S20 -375/MR	JAM60S20 -380/MR	JAM60S20 -385/MR	JAM60S20 -390/MR
Rated Maximum Power(Pmax) [W]	365	370	375	380	385	390
Open Circuit Voltage(Voc) [V]	41.13	41.30	41.45	41.62	41.78	41.94
Maximum Power Voltage(Vmp) [V]	33.96	34.23	34.50	34.77	35.04	35.33
Short Circuit Current(Isc) [A]	11.30	11.35	11.41	11.47	11.53	11.58
Maximum Power Current(Imp) [A]	10.75	10.81	10.87	10.93	10.99	11.04
Module Efficiency [%]	19.6	19.9	20.2	20.4	20.7	21.0
Power Tolerance		0~+5W				
Temperature Coefficient of Isc( $\alpha_{Isc}$ )			+0.044%/°C			
Temperature Coefficient of Voc( $\beta_{Voc}$ )			-0.272%/°C			
Temperature Coefficient of Pmax( $\gamma_{Pmp}$ )			-0.350%/°C			
STC			Irradiance 1000W/m <sup>2</sup> , cell temperature 25°C, AM1.5G			

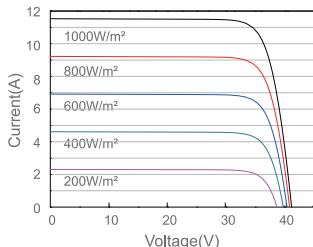
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

## ELECTRICAL PARAMETERS AT NOCT

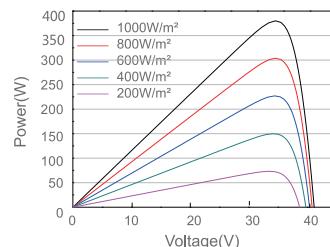
TYPE	JAM60S20 -365/MR	JAM60S20 -370/MR	JAM60S20 -375/MR	JAM60S20 -380/MR	JAM60S20 -385/MR	JAM60S20 -390/MR	Maximum System Voltage	1000V/1500V DC
Rated Max Power(Pmax) [W]	276	280	284	287	291	295	Operating Temperature	-40°C~+85°C
Open Circuit Voltage(Voc) [V]	38.41	38.65	38.89	39.14	39.38	39.63	Maximum Series Fuse Rating	20A
Max Power Voltage(Vmp) [V]	32.05	32.30	32.55	32.72	32.96	33.20	Maximum Static Load,Front	5400Pa (112 lb/ft <sup>2</sup> )
Short Circuit Current(Isc) [A]	9.15	9.20	9.25	9.30	9.35	9.40	Maximum Static Load,Back	2400Pa (50 lb/ft <sup>2</sup> )
Max Power Current(Imp) [A]	8.61	8.66	8.71	8.78	8.83	8.88	NOCT	45±2°C
NOCT				Irradiance 800W/m <sup>2</sup> , ambient temperature 20°C, wind speed 1m/s, AM1.5G			Safety Class	Class II
							Fire Performance	UL Type 1

## CHARACTERISTICS

Current-Voltage Curve JAM60S20-380/MR



Power-Voltage Curve JAM60S20-380/MR



Current-Voltage Curve JAM60S20-380/MR

