

Certificate



Certificate no.

TU 721990012 01

License Holder:

Unirac Inc.
1411 Broadway Blvd. NE
Albuquerque, NM 87102

Manufacturing Plant(s):

Refer to the latest revision of Appendix 2,
List of Factories.

Test report no.: USA- 319490012.001

Tested to: UL 2703: 2015

Client Reference: Mr. Klaus Nicolaedis

Certified Product: PV Module Rack Mounting System

Model Designation: Unirac Roof Mount (RM)

Mechanical Load: Tested

Electrical Bonding: Tested

Overcurrent Protection: 30 A

Fire Safety Class: Class A when installed with Type 1, 2, or 3 fire rated modules
(Consult the installation guide for any special requirements to meet the fire rating.)

Approved PV Modules: Refer to the latest revision of Appendix 3, List of Modules.

Appendices: 1, 1-5 2, 1 3, 1-4

Licensed Test Mark:



Date of Issue

(day/mo/yr)

08 August 2019

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Manufacturer	Model/Type
Astronergy / Chint	AstroHaloCHSM6610M (BF)+HV (40mm), AstroSemi CHSM72M-HC
AU Optronics	PM Series
Auxin	AXN6M610Txxx, AXN6P610Txxx, AXN6M612Txxx, AXN6P612Txxx
Axitec Solar	AC-XXXXP/156-60, AC-XXXXP/72S, AC-XXXXM/72S
Boviet	BVM6610P-XXX, BVM6610M-XXX, BVM6612M-XXX, BVM6612P-XXX
Canadian Solar (40mm)	CS5A-M, CS6P-M, CS6P-P, CS6X-P, CS6U-P, CS6U-M, CS6K-P, CS6K-M, CS6K-MS, CS1K-MS, CS3L-P, CS3W-P, CS3L-P, ELPS CS6P-MM, ELPS CS6A-MM, CS6K
Canadian Solar (35mm)	CS1K-MS, CS1H-MS, CS1U-MS, CS3U-P High Efficiency, CS3U-P, CS3U-MS, CS3K-P High Efficiency, CS3K-P, CS3K-MS, CS3K-MS Black, CS6U-P High Efficiency, CS6U-P, CS6K-P High Efficiency, CS6K-P, CS6K-MS, CS6K-MS All Black, CS6K
Canadian Solar (30mm)	CS3U-PB-AG, CS3U-MB-AG, CS3KPB-AG, CS3KMB-AG, CS3W-P-PB-AG
Centrosolar America	C-Series, E-Series
CertainTeed	CTxxxMxx-01, CTxxxPxx-01, CTxxxMxx-02, CTxxxMxx-03
ET Solar	ET Module, ET AC Module
Flex	FXS 60
GCL Solar	GCL-P6/72 XXX, GCL-P6/72H XXX, GCL-M6/72 XXX, GCL-M6/72H XXX, GCL-P6/60 XXX, GCL-M6/60 XXX

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Appendix – List of Approved PV Modules

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Manufacturer	Model/Type
Hansol	HSXXXTD-AN3 (40mm), UB-AN1 (35mm), UD-AN1 (35mm/40mm), TD-AN4 (40mm), TD-AN3 (40mm)
Hanwha SolarOne	HSL60, HSL72
Heliene Inc.	72Mxxx, 72Pxxx, 60Mxxx, 60Pxxx, 32Mxxx, 32Pxxx
HT-SAAE	HT72-156M-C, HT72-156M(V)-C, HT72-156M, HT72-156M(V), HT72-156P-C, HT72-156P(V)-C
Hyundai Heavy Industries	MI Series, MG Series, HiS – xxxx TI/RI/KI, HiA-xxxx HI
JA Solar	JAP6 60, JAP6 72
JA Solar	JAP6 60-xxx, JAM6-60-xxx/SI, JAM6(K)-60/xxx, JAP6(k)-72-xxx/4BB, JAP72SYY-xxx/ZZ, JAM60SYY-xxx/ZZ, JAP6(k)-60-xxx/4BB, JAP60SYY-xxx/ZZ, JAM6(k)-72-xxx/ZZ, JAM72SYY-xxx/ZZ, JAM6(k)-60-xxx/ZZ Note: YY: 01, 02, 03, 09, 10 ZZ: SC, PR, BP, HiT, IB, MW
JA Solar	JAM60D (30mm), JAM72D (30mm), JAM60S03 (35mm), JAM72S03 (40mm), JAP60S03 (35mm), JAP72S03 (40mm), JAM60S01 (35mm), JAM72S01 (40mm), JAP60S01 (35mm), JAP72S01 (40mm), JAM60S09 (35mm), JAM72S09 (40mm), JAP60S09 (35mm), JAP72S09 (40mm), JAM60S10 (35mm), JAM72S10 (40mm), JAP60S10 (35mm), JAP72S10 (40mm)
Japan Solar	JPS-xxxP-60, JPS-xxxP-72, JPS-xxxM-60, JPS-xxxM-72
Jinko Solar	JKM xxx M-60B (35mm), JKM xxx M-60 (35mm), JKM xxx M-60 -V (35mm), JKM xxx M-60HB (35mm), JKM xxx M-60H (35mm), JKMxxxPP-72(Plus) (40mm), JKMxxxM-72 (40mm), JKMxxxM-72(Plus) (40mm), JKMxxxPP-72-V (40mm), JKMxxx-72L-V (40mm), JKMxxx-72HL-V (40mm), JKMxxxM-60L (35mm), JKMxxxM-60HL (35mm), JKMxxxM-72-V, JKMxxxM-60BL, JKMxxxP-60B
Kyocera	KD-F Series
LG Electronics	MONO X, MONO NEON, N1K-A5, N1C-A5, Q1C(Q1K)-A5, N2T-A5, N2W-A5, S2W-A5, S1C-A5, E1C-A5, E1K-A5, N1K-V5, N1C-V5, Q1K-V5, Q1C-V5, N2W-V5, N2T-J5

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LONGi	LR6-60 Series (40mm), LR6-72 Series (40mm)
Mission Solar	MSE PERC 72 – MSE3XXSQ6S, MSE3XXSQ6W, MSE Mono 72 – MSE3XXSO6J, MSE3XXSO6W, MSE PERC 60 – MSEXXXSQ5T, MSEXXXSQ5K, MSE Mono 60 – MSE2XXSO5T, MSE2XXSO5K, MSE Multi 72 – MSEXXMM6J
Panasonic	VBHNxxxSA17G / 17E, VBHNxxxSA18E, VBHN xxx SA15, VBHN xxx SA16, VBHN xxx KA01, VBHN xxx SA17, VBHN XXX SA18, VBHN XXX KA03, VBHN XXX KA04
Phono Solar Technology	Standard Modules
Q CELLS	Q.PEAK G4.1/MAX, Q.PLUS G4, Q.PLUS BFR G4.1, Q.PLUS BFR G4.1/TAA, B.LINE PLUS BFR G4.1, B.LINE PRO BFR G4.1, Q.PRO BFR G4, Q.PRO BFR G4.1, Q.PRO BFR G4.3, Q.PRO G4
Q CELLS	Q.PEAK DUO-G8, Q.PEAK DUO BLK-G8, Q.PEAK DUO-G7, Q.PEAK DUO BLK-G7, Q.PEAK DUO G7.2, Q.PEAK DUO-G6, Q.PEAK DUO BLK-G6, Q.PLUS DUO-G5, Q.PEAK DUO-G5, Q.PEAK DUO BLK-G5, Q.PEAK-G4.1, Q.PEAK BLK G4.1, Q.PEAK-G4.1/TAA, Q.PEAK BLK G4.1/TAA
Q CELLS	Q.PEAK DUO L-G8.3, Q.PEAK DUO L-G8.2, Q.PEAK DUO L-G8.1, Q.PEAK DUO L-G8, Q.PEAK DUO L-G7.3, Q.PEAK DUO L-G7.2, Q.PEAK DUO L-G7.1, Q.PEAK DUO L-G7, Q.PEAK DUO L-G6, Q.PEAK DUO L-G6.2, Q.PEAK DUO L-G6.3, Q.PLUS DUO L-G5, Q.PLUS DUO L-G5.1, Q.PLUS DUO L-G5.2, Q.PLUS DUO L-G5.3, Q.PEAK DUO L-G5, Q.PEAK DUO L-G5.1, Q.PEAK DUO L-G5.2, Q.PEAK DUO L-G5.3, Q.PEAK DUO L-G5.3/BF, Q.PEAK L G4.2, Q.PEAK L G4.1, Q.PLUS L G4.2, Q.PLUS L G4.1, Q.PLUS L G4, Q.PLUS L-G4.2/TAA, Q.PRO L G4, Q.PRO L G4.1, Q.PRO L G4.2, B.LINE PLUS L G4.2, B.LINE PRO L G4.1, B.LINE PRO L G4.2, B.LINE PEAK DUO G7.2
REC (38mm)	Peak, Echo, RECxxxTP2M, RECxxxTP2, RECxxxTP2 BLK2
REC (30mm)	RECxxxPE (PeakEnergy BLK), RECxxxPE 2SM50 BLK, RECxxxNP, RECxxxNP BLK, RECxxxTP2SM72, RECxxxTP2S72 XV, RECxxxTP2S72
Renesola	All 60 cell Modules
Risen	RSM72-6 (P/M), RSM144-6
S-Energy	SNxxxP-10, SN 60-Cell and SN 72-Cell Modules, SNxxxM-10, SN 60-Cell and SN 72-Cell Modules, SNxxxP-15, SN 72-Cell Modules

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Seraphim	SEG-6PA, SEG-6PB, SEG-6MA, SEG-6MB, SEG-E01, SEG-E11, SRP-6QA, SRP-6QB
Sharp	ND-24COCI, ND-25COCS, ND-0235F4, ND-F40300
Silfab	SLAxxxM, SLAxxxP, SLGxxxP, SLGxxxM, SLA-X
Solaria	PowerXT-xxxC-BD, PowerXT-xxxC-PD, PowerXT-xxxR-BD, PowerXT-xxxR-PD, PowerXT-xxxR-AC
SolarWorld	Sunmodule Protect, Sunmodule Plus
Suniva	Optimus Series, MV Series
Suntech	STP Series
Sun Edison	F-Series, R-Series
SunPower	X-Series, E-Series, Sig Black, AC
Talesun Solar	TP572P XXX, TP572M XXX, TP596P XXX, TP596M XXX, TP654P XXX, TP654M XXX, TP660P XXX, TP660M XXX, 35mm/40mm, TP672P XXX, TP672M XXX, HIPRO TP660M XXX, HIPRO TP672M XXX, TALESUN SMART TP660P XXX
Trina	PA05, PD05, DD05, PD14, PE14, DD14, DE14
URE	D7MXXXXH7A, D7KXXXXH7A, D7MXXXXH8A, D7KXXXXH8A
Vikram	Eldora Grand Ultima, Eldora Ultima, Solivo, Somera Grand Ultima, Somera Ultima, Eldora Grand, Eldora Prime, Somera Grand, Somera Half, Somera Prime
Yingli	Panda 60, YGE-U 72, YGE72, YGE-60, YGEZ 60, YLM60 (35mm) 30b, YLM72 (40mm) 36b, YLM-VG (35mm) 30b
Yingli	YGE-U 72, YGE-60, YGE-Z 60, Panda 60

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