

M20A.S

Modular Floodlight



- 1350W -

Ongoing



CB



UK
CA

CE

RoHS



5
YEARS
WARRANTY

SPECIFICATION

Product: M20 Modular Floodlight

Part No.: M20A1350S

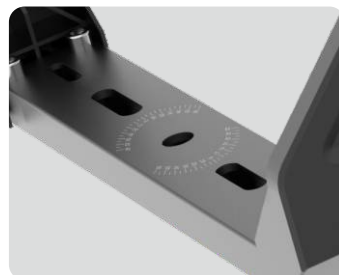
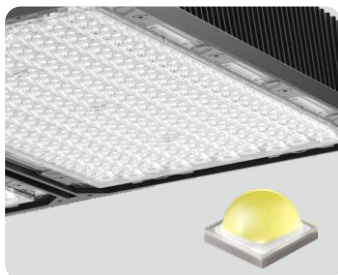


1350W

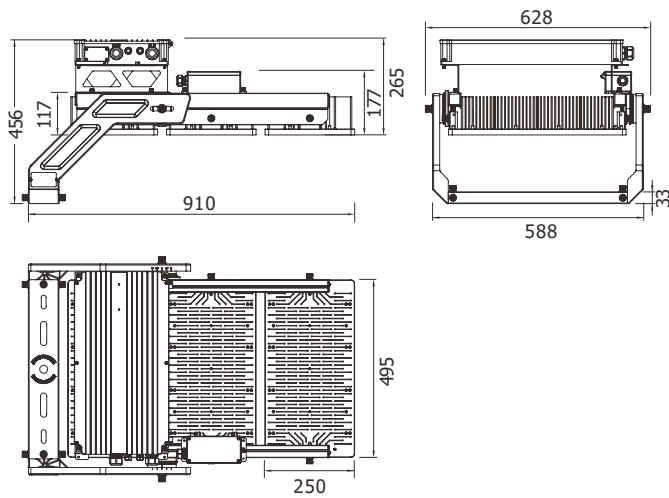
1. Main features

- Cold forging pure aluminum with high thermal conductivity.
- Die-casting aluminum bracket for less weight.
- 3535 ceramic LED with low thermal resistance to enable very high reliability and long lifetime.
- 140-150lm/W based on sharp spill light control.
- Professional optical design, lens can be interchanged.
- Beam angle: 12°/30°/60° symmetric; 40°x15°/60°x15° /100°x17°/100°x60°/130°x25° asymmetric.
- 20KV surge protection.
- Driver box flexible for remote (only one 3-core cable).
- Inrush current limiter integrated.
- Thermal control unit integrated to protect LED module.
- G2.0 driver control board, minimize driver failure rate.
- Dali-2, 0/10V dimmable available.
- Angle fine tuning attainable precision 0.5°.

2. Product details

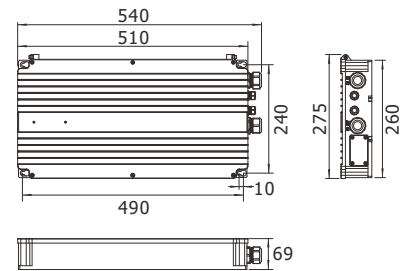


3. Dimensions (Unit: mm)



1350W

Control Gear (Driver Box)



Matrix-340-1350W

Mono-340-1350W-S/H

4. Technical data

Model No.	M20A1350S	Model No.	M20A1350S
Light Source	SMD 3535	THD (230VAC)	<20%
Control Gear	Matrix/Mono-S/Mono-H	Surge Protection	20KV
Input Voltage Range *	100-305Vac 50/60Hz	Dimmable	0/10V; Dali-2; DMX
LED Power (W)	1221-1312	Housing Color	Black / Gray
System Power(W)	1305-1357	IP Class	IP66
Luminous Flux(lm)	198,000-209,000	Working Temperature (°C)	-20 to +50
Power Factor	>0.95	Working Humidity(RH%)	10-90
CCT (K)	3000/4000/5700	Power Cable	1m H07RN-F 3x1.5
CRI	>70 / >80	Outer Carton(CM)	85.5*73*36(1pcs/CTN)
Beam Angle	12°/30°/60° symmetric; 40°x15°/60°x15° 100°x17°/100°x60°/130°x25° asymmetric		

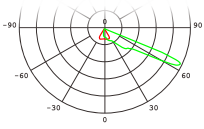
* Certified voltage range: Matrix (100-240Vac)

5. Net weight

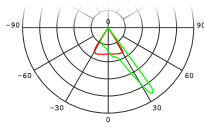
Model No.	Luminaire	Control Gear			
		Matrix(0/10V)	Matrix(Dali)	Mono-S(0-10V/DMX)	Mono-H(0-10V/DMX)
M20A1350S	23.8 Kg	7.9 Kg	9.3 Kg	7.2 Kg	7.1 Kg

6. Luminous intensity distribution diagram

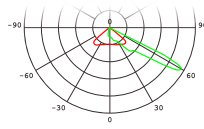
For the IES file, please contact us by E-mail.



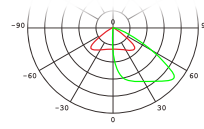
40°x15° Asy



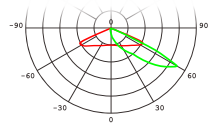
60°x15° Asy



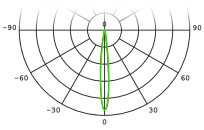
100°x17° Asy



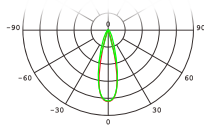
100°x60° Asy



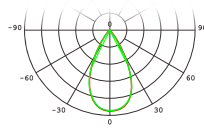
130°x25° Asy



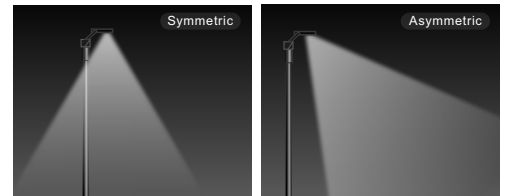
12°



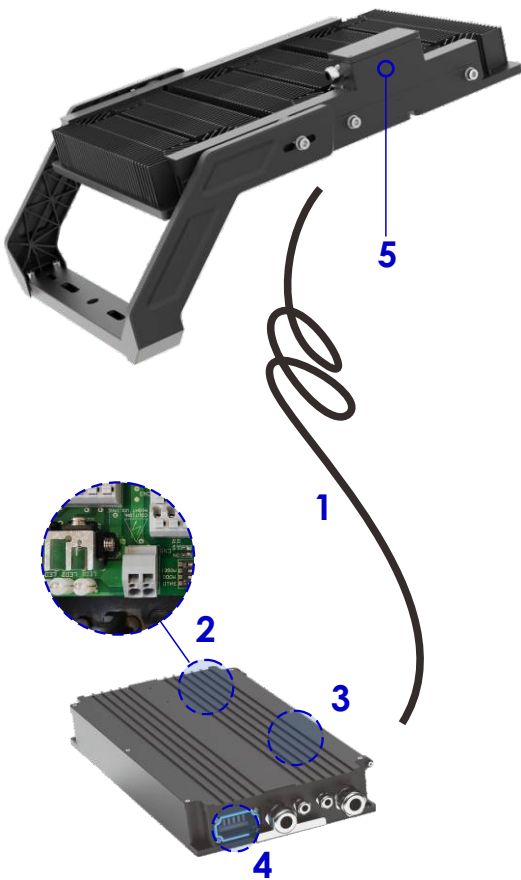
30°



60°



7. Innovations



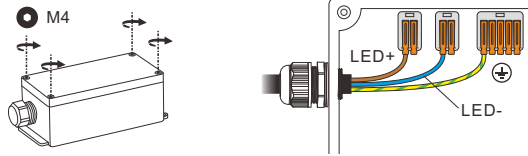
Control Gear

- 1** Only one 3-core cable go up to the luminaire.
- 2** Super high reliability: Multiple isolated drivers inside with the second generation driver control board.
- 3** 20KV surge protection
- 4** Transparent PC window for monitors/Bluetooth signals
- 5** Thermal Control Unit To protect LEDs from extreme condition

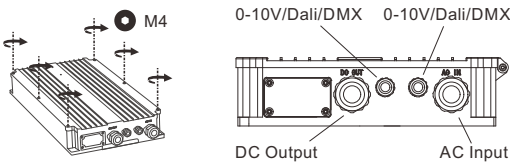
8. Wiring of separated control gear solution



(1) Connection of luminaire

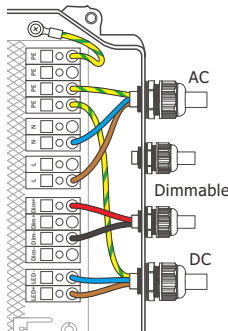


Cable gland of Matrix & Mono

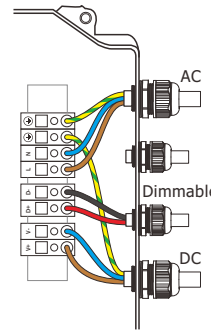


Connection	Cable Gland	Toque (N*m)	Cable Diameter (mm)	Cable Section (mm ²)
AC Input	M20	5.5	8-10/10-12	1.5/2.5
DC Output	M20	5.5	8-10/10-12	1.5/2.5
Dimmable	M16	2.5	7-10	1.0-1.5

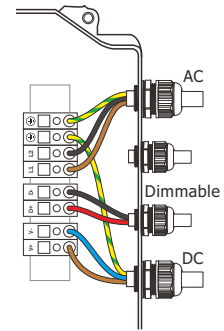
(2) Matrix (0-10V / Dali)



(3) Mono-S (0-10V / Dali)



(4) Mono-H (0-10V / Dali)



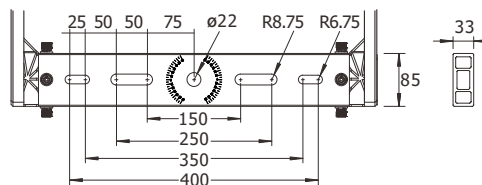
Note: According to the actual needs, the number of connectors will increase or decrease. Different dimming function cannot be used at the same time.

9. Installation

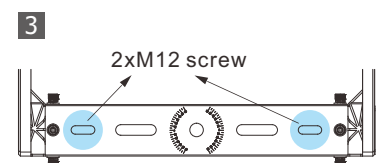
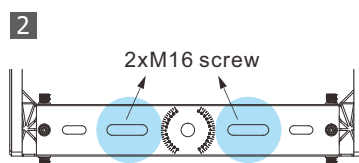
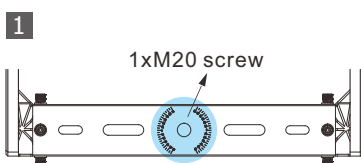


- For details, please refer to Installation Instruction.
- Installation must be performed by qualified person.
- Disconnect before installation.
- Installation tools are not provided.

Mounting bracket

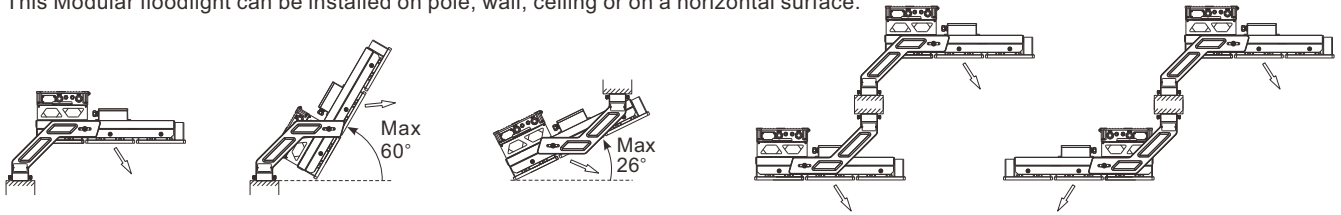


Selection of mounting holes



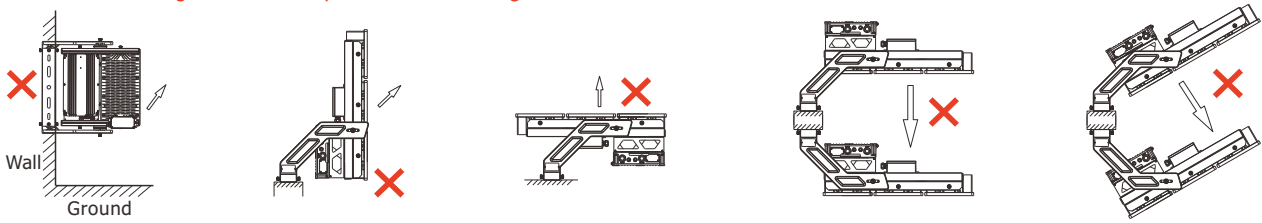
Position allowed

This Modular floodlight can be installed on pole, wall, ceiling or on a horizontal surface.



Position not allowed

Note: Considering the heat dissipation, load bearing and dust accumulation, some installation methods are not allowed.



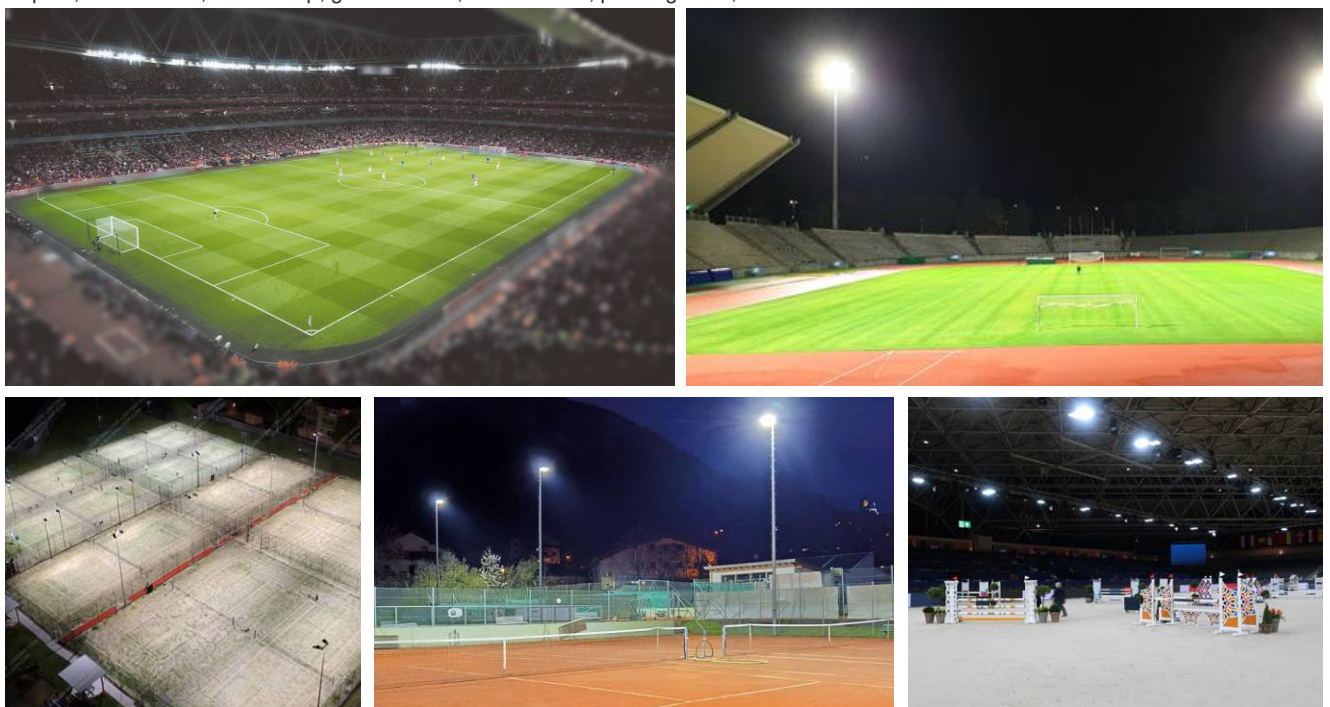
10. Effective Projected Area (EPA=SCx)

Unit: m²

Power \ Tilt angle	0°	10°	20°	30°	45°	60°
1350W	0.08	0.09	0.11	0.14	0.17	0.19

11. Application

Suitable for football stadiums, tennis courts, stadiums and other large sports venues, high mast, harbor, airport, warehouse, workshop, gas stations, toll stations, parking area, etc.



Revision History

Version	Change Date	Description of change
1.3	14-Aug-23	The installation drawing has been modified.
1.4	23-Aug-23	According to the IES test data, the power and luminous flux are modified.
1.5	28-Aug-23	M20A1350S added the option of Mono-S/H.
1.6	4-Sept-23	According to the IES test data, the power and luminous flux are modified; The dimension of Matrix was modified; Added driver separation solution and EPA information.
2.0	13-Sept-23	The information of separated control gear solution was modified.
2.1	19-Sept-23	Added the text: 3535 ceramic LED, and added the picture of the LED
3.0	1-Nov-23	Updated the dimension of products; Deleted the beam angle: 90°x15°; Added the beam angle: 130°x25°
3.1	14-Nov-23	The FCC certification icon was removed, and the light distribution diagram of 130°x25° was modified.
3.2	21-Nov-23	The wiring diagram of Mono has been modified