

# INSATIVA

Model	i0	i1	i2	i3	i4	e2	e3	e4	ir	uv
<b>MSRP (usd)</b>	230	385	600	820	1000	703	991	1279	200	250
<b>Power (w)</b>	70	120	165	260	340	200	300	400	26	26
<b>Coverage (cm)</b>	60 x 60	80 x 80	100 x 100	120 x 120	150 x 150	100 x 100	120 x 120	150 x 150	80 x 80	80 x 80
<b>Reach (m2)</b>	0.36	0.64	1	1.44	2.25	1	1.44	2.25	0.64	0.64
LIGHTING TECHNOLOGY										
<b>Light Source</b>	High Power Light Emitting Diode (LED)									
<b>Brand   Model</b>	Samsung LH351-Horticulture									Seoul Viosys
<b>LED Quantity</b>	30	48	96	144	192	96	144	192	12	12
<b>360 Nm UV-A</b>										12 (100%)
<b>450 Nm Royal Blue</b>	3 (10%)	3 (6,25%)	6 (6,25%)	9 (6,25%)	12 (6,25%)	6 (6,25%)	9 (6,25%)	12 (6,25%)		
<b>5000 °K Cool White</b>						30 (31,12%)	45 (31,12%)	60 (31,12%)		
<b>4000 °K Neutral White</b>	18 (60%)	36 (75%)	72 (75%)	108 (75%)	144 (75%)	30 (31,12%)	45 (31,12%)	60 (31,12%)		
<b>3000 °K Warm White</b>						12 (12,5%)	18 (12,5%)	24 (12,5%)		
<b>630 Nm Red</b>									12 (100%)	
<b>660 Nm Deep Red</b>	6 (20%)	6 (12,5%)	12 (12,5%)	18 (12,5%)	24 (12,5%)	12 (12,5%)	18 (12,5%)	24 (12,5%)		
<b>730 Nm Far Red</b>	3 (10%)	3 (6,25%)	6 (6,25%)	9 (6,25%)	12 (6,25%)	6 (6,25%)	9 (6,25%)	12 (6,25%)		
OPTICAL TECHNOLOGY										
<b>Material</b>	Poly Methyl Methacrylate (PMMA)									Silicone
<b>Brand</b>	Khatod Italia									
<b>Distribution</b>	Quadratic									
<b>Angle</b>	120°									
<b>Transparency</b>	> 92%									
<b>Quantity</b>	1	1	2	3	4	2	3	4	1	1
<b>i-Frame (Lens Protection)</b>	No					Yes				
ELECTRONIC TECHNOLOGY										
<b>Driver Type</b>	Electronic Constant Current									
<b>Brand</b>	Meanwell	Moso								
<b>Model</b>	HBG-60	MTP-120M	X6						Serie E6 (EHC)	
<b>Power (w)</b>	60	120	150	240	320	200	300	400	26	26
<b>Quantity</b>	1	1	1	1	1	1	1	2	1	1
<b>Input Voltage (v)</b>	180 a 240	100 a 240	90 a 305						108 a 305	
<b>Amperage (amp)</b>	0,32	0,55	0,75	1,2	1,55	0,9	1,4	1,8	TBD	TBD
<b>Short-circuit Protection</b>	Yes									
<b>Over-voltage Protection</b>	Yes									
<b>Over-heat Protection</b>	Yes									
<b>Dimmer</b>	No	Yes							No	
<b>Dust and Water Protection Grade</b>	IP65	IP67								
<b>i-Link (Aux Energy Output)</b>	No					Yes				
<b>Lifetime (hs)</b>	50.000					100.000				
REFRIGERATION TECHNOLOGY										
<b>Type</b>	Pasive									
<b>Material</b>	Injected Aluminum					Extruded Aluminum				
<b>Finish</b>	Painted					Anodized				
<b>Working Temperature (°C)</b>	< 55 °C					< 65 °C				
SIZE & WEIGHT										
<b>Length (cm)</b>	20	28	20	20	40	20	20	50	TBD	TBD
<b>Width (cm)</b>	20	28	40	60	40	40	60	50	TBD	TBD
<b>Height (cm)</b>	16	16	14	14	14	12	12	9	TBD	TBD
<b>Weight (kg)</b>	3	4	7	11,5	17	6,5	10	15	TBD	TBD
<b>Warranty</b>	2 años									
ACTIVE PHOTOSYNTHETIC RADIATION (PAR)										
<b>Growing Distance (cm)</b>	30-50		40-60							
<b>Flowering Distance (cm)</b>	25-40		30-50							
<b>PPFD 60x60/30 cm</b>	400	500	600	700	1100	650	750	1200	TBD	TBD
<b>PPFD 60x60/50 cm</b>	300	400	500	600	1000	550	650	1100	TBD	TBD
<b>PPFD 80x80/30 cm</b>	350	450	550	650	1050	600	700	1150	TBD	TBD
<b>PPFD 80x80/50 cm</b>	250	350	450	550	950	500	600	1050	TBD	TBD
<b>PPFD 100x100/30 cm</b>	300	400	500	600	1000	550	650	1100	TBD	TBD
<b>PPFD 100x100/50 cm</b>	200	300	400	500	900	450	550	1000	TBD	TBD
<b>PPFD 120x120/30 cm</b>	250	350	450	550	950	500	600	1050	TBD	TBD
<b>PPFD 120x120/50 cm</b>	150	250	350	450	850	400	500	950	TBD	TBD
<b>PPFD 150x150/30 cm</b>	200	300	400	500	900	450	550	1000	TBD	TBD
<b>PPFD 150x150/50 cm</b>	100	200	300	400	800	350	450	900	TBD	TBD

\*PPFD: Photosynthetic Photon Flux Density (PPFD)

For more information check PAR measurement grids

\*\*Measurements made with Apogee Instruments MQ-610 ePAR 400-750 nm meter.

For more information visit <https://www.apogeeinstruments.com/mq-610-400-750-nm-epar-meter/>