

HSE 600 Watt and HSE 1000 Watt lighting fixtures: Electronic ballast devices for security and high efficiency.

With the HSE 600 Watt and the HSE 1000 Watt fixtures, Hortilux Schröder provides electronic ballast devices with a low energy use and a long life span. Through the introduction of the HSE 600 Watt and the HSE 1000 Watt, Hortilux Schröder anticipates the demand and the necessity for increasingly higher lighting levels in the glasshouse horticulture without losing energy efficiency.

Perfection in Electronics

Hortilux Schröder has perfected electronic ballast devices. Fixtures and reflectors have been developed in-house. The fixture is very compact, which minimises shadow effects. At the same time the housing has been designed in such a way that the fixture remains clean and dust free. A membrane provides ventilation, so that moisture cannot negatively influence the sensitive electronic components. The unique construction of the fixture, with cooling fins and heat shield, ensures that the thermal management remains constant and within the housing all electronic components are well protected against outside influences. These are all advantages that guarantee a long life span - even under the most extreme glasshouse conditions. The fixture is maintenance free and a practical

LED indicates if a failure occurs, making the source immediately clear. Of course the fixtures meet all the necessary safety requirements. For example, the HSE 1000 Watt is provided with a special lamp bracket that enables easy and safe placing or changing of the lamp. A new reflector, the Alpha, was especially developed for the HSE 1000 Watt. This guarantees the highest lighting yield and maximum uniformity.

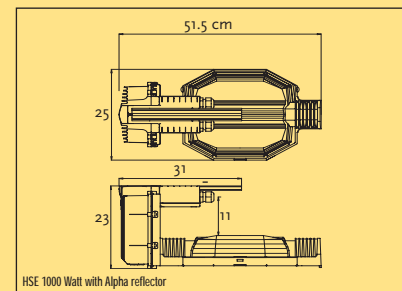
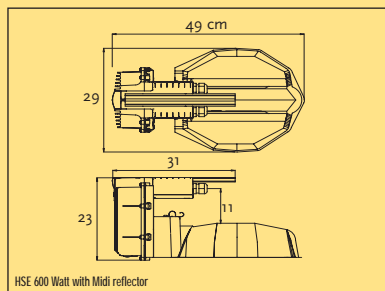
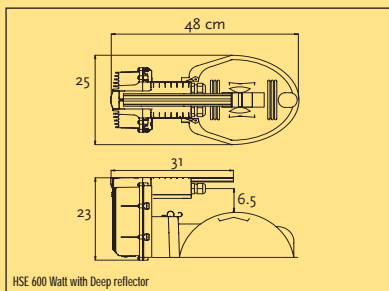
Ready for the future



The HSE 600 Watt and the HSE 1000 Watt are light years ahead of their time. This is also in your interest because efficiency will play an even bigger role in the future. The HSE 600 and HSE 1000 Watt generate more light for less energy. More efficient nor better solutions in the field of supplemental lighting do not exist: the lamps start up better and burn more constant. Because Hortilux Schröder has developed the concept and stands 100% behind it, you are guaranteed years of carefree functioning. The lamps have been developed in the 1000 Watt/400 Volt and 600 Watt/400 Volt designs. When using the HSE 1000 Watt you can use fewer fixtures and therefore less connection points for an equal light level. This results in less shadow effects and more light. Of course you can expect a professional lighting plan from Hortilux Schröder. Please feel free to ask us for an offer without any obligations.



HORTILUX  **SCHRÉDER**
Supplemental Lighting

		HSE 600				HSE 1000			
Input (fixture)		min	type	max	unit	min	type	max	unit
Conditions									
Mains voltage	Nominal operational performance	368	400	424	V	368	400	424	V
	Operational safety	360		440	V	360		440	V
Mains frequency	Nominal operational performance	47.5		63	Hz	47.5		63	Hz
	Operational safety	45.0		66	Hz	45.0		66	Hz
Mains current	At $P_{lamp\ nominal} U_{mains} = 400V$		1.61	1.65	A		2.61	2.68	A
	At $P_{lamp\ nominal} U_{mains} = 368V$			1.90	A			3.0	A
Mains Power	$P_{lamp\ nominal} = 615W$		635	640	W				
Mains Power	$P_{lamp\ nominal} = 1000W$						1032	1040	W
Power factor									
Within operational performance mains and at $P_{lamp\ nominal}$		0.95	0.98			0.95	0.98		
Distortion									
Within operational performance mains and at $P_{lamp\ nominal}$		According to EN 61000-3-2				According to EN 61000-3-2			
THD			9	15	%		9	15	%
Inrush current	$U_{mains} = 424V$	GEN 2	120		A	GEN 2	175		A
	$Z_{mains} = 0.4\ ohm + 0.8\ mH$	GEN 3	34		A	GEN 3	35		A
Duration		GEN 2	0.5		ms	GEN 2	0.5		ms
		GEN 3	0.8		ms	GEN 3	1.0		ms
Output (lamp side)		min	type	max	unit	min	type	max	unit
Lamp power	$U_{mains} \pm 3\% (P_{lamp\ nominal})$	597	615	633	W	970	1000	1030	W
	$U_{mains} -8\%, +6\% (P_{lamp\ nominal})$	585		645	W	950		1050	W
Ignition voltage	C load < 100pfc			2500	V pk			2500	V pk
Weight (incl. lamp & reflector)			4.3 kg				4.7 kg		



The HSE fixtures meet all the test specifications for the professional glasshouse horticulture. The HSE fixtures have been tested according to EN 60598-1, EN 60598-2-1 and IEC 598. The fixtures are also provided with CE marking and meet all other relevant requirements including EMC, Insulation class 1 and IP 23. Quality marks: ENEC and KEMA.  

Your Hortilux Schröder installer:

HORTILUX  **SCHRÉDER**
Supplemental Lighting

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