



BudmasterLED

MADE IN THE UK

www.budmaster.nl

cld-trading@outlook.com

CROPMASTER ++ ADVANCED LED



Up until now research and development horticultural led has been very limited in its functionality to just changing spectrum and light levels.

As you would expect from Budmaster LED we have of course surpassed this archaic model and developed something that is so much more:

1. **IOT Interaction**
 2. Interact with other IOT devices
 3. Control from anywhere
4. **Dynamic Spectrum**
 5. Change colour
 6. Schedule of events (single / multiple)
7. **Data Harvesting**
 8. Canopy temperature
 9. Room temperature and humidity
 10. Plant growth over time etc.
11. **Gesture Control**
 12. Inspection mode
 13. Human detection
14. **Multi Protocol Mesh Networking**

LED's : Osram Horticultural LED

PPF (Total): 700+ μmol

Use / Replaces: R & D, Dynamic Lighting

Available: March 2018

CROPMASTER HB-600 PRO LED



LED's : Osram Horticultural LED

PPF (Total): 1000+ μ mol

Replaces: 600w Commercial HPS

Available: March 2018

No other commercial grade led comes close to our Cropmaster HB range in efficiency, durability, output and repeatability.

Our Cropmaster HB-600 is designed specifically for greenhouse and indoor growers and designed to easily and effectively replace your commercial grade 600w lamps.

Solid state horticultural diodes from Osram endure in the most extreme environments and provide a perfect partner for horticultural lighting.

Commercial grade blowers from EBM-PAPST are ingress proof and have an operating temperature range of -20 to $+70$ degrees Celsius.

You can choose to power the lamps from standalone Artesyn Drivers or we can provide 24kw 3 Phase rack mount drivers to maximize efficiency and minimize maintenance costs.



CROPMASTER HB-1000 PRO LED



LED's : Osram Horticultural LED

PPF (Total): 1900+ μ mol

Replaces: 1000w DE Commercial HPS

Available: March 2018

This lamp is effectively the only horticultural led in existence that can effortlessly beat any 1000w DE Commercial Grade HPS on yield and quality.

Our Cropmaster HB-1000 is designed specifically for greenhouse and indoor growers and designed to easily and effectively replace your commercial grade 1000w DE lamps.

Solid state horticultural diodes from Osram endure in the most extreme environments and provide a perfect partner for horticultural lighting.

Commercial grade blowers from EBM-PAPST are ingress proof and have an operating temperature range of -20 to $+70$ degrees Celsius.

You can choose to power the lamps from standalone Artesyn Drivers or we can provide 24kw 3 Phase rack mount drivers to maximize efficiency and minimize maintenance costs.



CROPMASTER LL SP35



LED's :	Lumiled Sunplus 35
Available:	January 2018
Energy Used:	58w
Dimensions:	15 x 33 x 45cm
Warranty:	5 Years

Our Cropmaster LL (Low Level) range of led have been designed specifically for the vertical growing market.

The slim design and evenly blended SPD allows the grower to lower their total cost of ownership considerably by allowing for 20% + more shelving units per rack.

Designed to be durable and withstand all moisture ingress our Cropmaster LL will endure magnificently in the grow room for many many years.

We can offer bespoke spectrums and driving options for this range of lamps and we can even offer bespoke led options and can easily produce Osram LED or Cree LED editions of this lamp if the project requires.

Generally the units are powered at 30—60w but dependant upon customer requirements driving output can be changed to increase overall efficiency.



BUDMASTER G.O.D.

Budmaster G.O.D Unbeatable Efficiency, Quality, Longevity and Results.

Our Budmaster G.O.D series of Horticultural LED Lamps are undoubtedly the most efficient and high quality horticultural led lamps available on the market.

Not only do we have more consistent efficiency levels at 1.89 μ mol/j combined with a led lifespan of 100,000 hours lowers your total cost of ownership considerably more than any other horticultural led lamp on the market.

Our superior build ensures that our lamps continue to give you repeatable and reliable results year on year by dropping less than 1% output per year.

Our lamps are all UK designed and built ensuring the highest quality standards available in the industry, this shows in the durability and longevity of our light engines, in 4 years of trading we have not lost a single osram diode to failure of any kind and have thousands of very happy customers all over the globe.

BUDMASTER G.O.D-2



- LED's : Osram SSL Horticultural LED
- PPF (Total): 182.4 μ mol
- PPF (Efficiency): 1.89 μ mol/j
- Use / Replaces: Closet Grow or Supplemental
- Energy Used: 97w
- Amps: 0.42
- Dimensions: 19 x 32 x 6cm
- Weight: 2kg
- Warranty: 5 Years
- Coverage: 40 x 80cm

Budmaster GOD-2 PPF Maps for 40 x 80 x 160cm Space (Lamp hung at 150cm)

1018	998	979	959	940
1018	998	979	959	940
1018	998	979	959	940

G.O.D-2 @30cm

Average PPF: 978 μ mol/s-m²

943	915	887	859	831
943	915	887	859	831
943	915	887	859	831

G.O.D-2 @60cm

Average PPF: 887 μ mol/s-m²

654	635	616	596	577
654	635	616	596	577
654	635	616	596	577

G.O.D-2 @90cm

Average PPF: 615 μ mol/s-m²

430	419	407	395	384
430	419	407	395	384
430	419	407	395	384

G.O.D-2 @120cm

Average PPF: 407 μ mol/s-m²

BUDMASTER G.O.D-4



LED's : Osram SSL Horticultural LED
 PPF (Total): 364.8µmol
 PPF (Efficiency): 1.89µmol/j
 Use / Replaces: 400w HPS
 Warranty: 5 Years
 Coverage: 80 x 80cm

Budmaster GOD-4 PPF Maps for 100 x 100 x 200 cm Space (Lamp hung at 190cm)

694	589	718	668	529
661	602	1238	894	687
781	1138	1620	1218	771
628	617	1238	1804	667
465	627	778	728	527

G.O.D-4 @ 90cm (4 engines on)
 Average PPF: 80µmol/s/m2

688	618	612	668	676
566	737	666	728	603
640	679	1238	894	703
676	717	1803	830	618
486	618	751	600	504

G.O.D-4 @ 90cm (4 engines on)
 Average PPF: 69µmol/s/m2

680	663	668	680	610
484	613	726	623	527
565	754	661	690	632
618	678	616	781	662
440	565	688	604	496

G.O.D-4 @ 90cm (4 engines on)
 Average PPF: 104µmol/s/m2

576	488	504	474	622
506	544	590	527	467
535	604	685	613	558
618	571	693	698	623
478	525	594	504	622

G.O.D-4 @ 120cm (2 engines on)
 Average PPF: 55µmol/s/m2

606	682	634	632	609
571	480	617	549	400
625	637	657	665	440
601	606	672	668	661
359	421	462	562	550

G.O.D-4 @ 135cm (2 engines on)
 Average PPF: 61µmol/s/m2

381	518	618	661	463
316	362	472	421	354
356	405	634	524	305
611	604	618	688	607
383	362	417	637	563

G.O.D-4 @ 150cm (2 engines on)
 Average PPF: 58µmol/s/m2

316	518	606	667	518
360	612	463	355	309
317	415	725	440	358
301	602	486	696	618
393	315	389	603	279

G.O.D-4 @ 160cm (2 engines on)
 Average PPF: 50µmol/s/m2

281	342	379	216	211
232	379	217	402	262
372	317	368	536	298
262	312	661	671	627
268	386	320	612	336

G.O.D-4 @ 120cm (2 engines on)
 Average PPF: 216µmol/s/m2

Energy Used: 193w
 Amps: 0.9
 Voltage: 110 - 277v
 Dimensions: 32 x 32 x 6cm
 Weight: 4kg

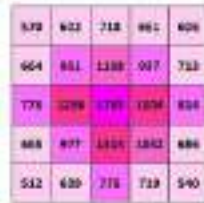
BUDMASTER G.O.D-6



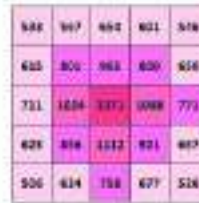
- LED's : Osram SSL Horticultural LED
- PPF (Total): 547.2 μ mol
- PPF (Efficiency): 1.89 μ mol/j
- Use / Replaces: 600w HPS
- Warranty: 5 Years
- Coverage: 80 x 120cm

- Energy Used: 290w
- Amps: 1.3
- Voltage: 110 - 277v
- Dimensions: 49 x 32 x 6cm
- Weight: 6kg

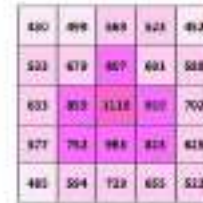
Budmaster GOD-6 PPF Maps for 120 x 120 x 200 cm Space (Lamp hung at 190cm)



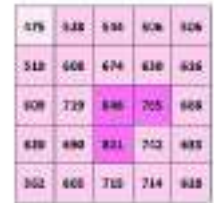
G.O.D-6 @ 50cm (5 engines on)
Average PPF: 850 μ mol/s/m²



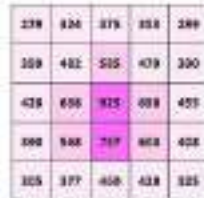
G.O.D-6 @ 90cm (8 engines on)
Average PPF: 75 μ mol/s/m²



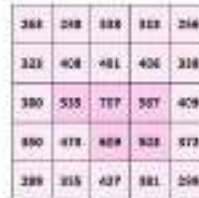
G.O.D-6 @ 98cm (8 engines on)
Average PPF: 160 μ mol/s/m²



G.O.D-6 @ 120cm (6 engines on)
Average PPF: 48 μ mol/s/m²



G.O.D-6 @ 135cm (3 engines on)
Average PPF: 418 μ mol/s/m²



G.O.D-6 @ 160cm (2 engines on)
Average PPF: 608 μ mol/s/m²

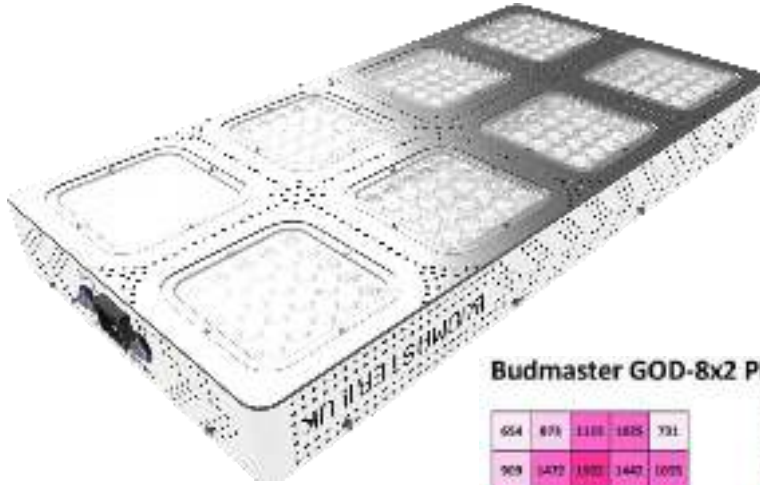


G.O.D-6 @ 168cm (2 engines on)
Average PPF: 383 μ mol/s/m²



G.O.D-6 @ 200cm (1 engine on)
Average PPF: 318 μ mol/s/m²

BUDMASTER G.O.D-8



LED's : Osram SSL Horticultural LED

PPF (Total): 729.6µmol

PPF (Efficiency): 1.89µmol/j

Use / Replaces: 600+w HPS

Warranty: 5 Years

Coverage: 160 x 80cm

Budmaster GOD-8x2 PPF Maps for 150x150 x 200 cm Space (Lamp hung at 190cm)

654	671	1110	1025	731
909	1472	1892	1442	1075
1221	1917	2790	1994	1388
942	1564	2043	1638	999
732	903	1313	1098	772

G.O.D-8 @170cm (20 engines on)
Average PPF: 1251µmol/s-m²

743	812	1117	1005	712
990	1354	1819	1343	1022
1146	1710	2317	1798	1327
880	1195	1618	1302	1048
703	1019	1374	1117	819

G.O.D-8 @160cm (16 engines on)
Average PPF: 1189µmol/s-m²

710	868	1014	825	751
921	1125	1434	1115	900
1071	1401	1818	1311	1173
851	1190	1419	1137	1019
725	1013	1254	1007	840

G.O.D-8 @150cm (14 engines on)
Average PPF: 1112µmol/s-m²

817	898	995	812	804
918	1003	1101	1075	904
965	1078	1134	1111	1048
904	1055	1110	1101	1048
830	1034	1107	1110	907

G.O.D-8 @140cm (16 engines on)
Average PPF: 1160µmol/s-m²

458	581	717	677	590
608	811	1141	894	674
672	1139	1581	1101	790
595	826	1186	988	681
494	623	773	714	533

G.O.D-8 @130cm (8 engines on)
Average PPF: 754µmol/s-m²

455	517	628	628	466
524	708	924	783	605
635	915	1117	1016	674
595	710	1018	867	608
465	608	758	666	465

G.O.D-8 @120cm (8 engines on)
Average PPF: 714µmol/s-m²

521	542	649	581	514
550	609	726	668	600
580	718	837	780	621
570	604	681	782	658
520	614	708	666	618

G.O.D-8 @110cm (8 engines on)
Average PPF: 651µmol/s-m²

418	486	591	558	480
417	605	616	679	551
578	617	600	674	628
523	731	628	772	580
460	579	518	618	472

G.O.D-8 @100cm (8 engines on)
Average PPF: 611µmol/s-m²

Energy Used: 386w

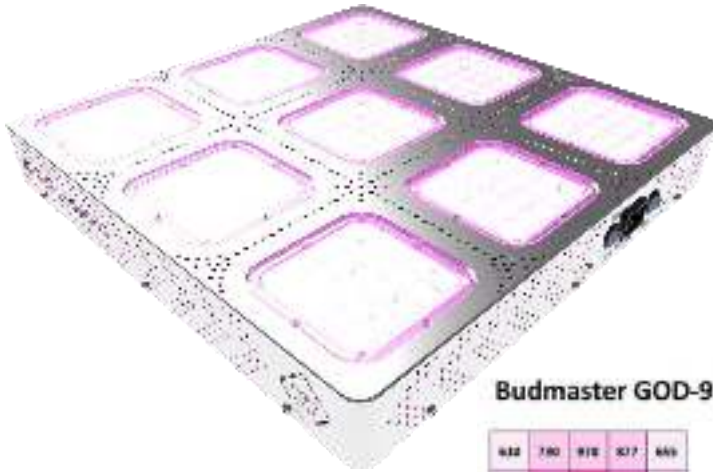
Amps: 1.8

Voltage: 110 - 277v

Dimensions: 63 x 32 x 6cm

Weight: 8kg

BUDMASTER G.O.D-9



- LED's : Osram SSL Horticultural LED
- PPF (Total): 820 μ mol
- PPF (Efficiency): 1.89 μ mol/j
- Use / Replaces: 600+w HPS
- Warranty: 5 Years
- Coverage: 120 x 120cm

Budmaster GOD-9 PPF Maps for 120 x 120 x 200 cm Space (Lamp hung at 190cm)

838	780	918	877	669
944	1278	1682	1552	925
981	1678	2422	1781	1048
882	1288	1754	1698	873
649	837	1064	951	685

G.O.D-9 @ 90cm (9 engines on)

Average PPF: 1323 μ mol/s.m²

626	714	838	828	668
823	1304	1818	1733	879
953	1493	2352	2495	1628
886	1376	2112	2270	879
683	878	1208	957	718

G.O.D-9 @ 98cm (9 engines on)

Average PPF: 1035 μ mol/s.m²

676	766	908	821	708
818	1400	2258	2069	898
957	1580	2618	2363	1801
879	1316	2118	2211	818
754	914	1278	1004	808

G.O.D-9 @ 98cm (8 engines on)

Average PPF: 1003 μ mol/s.m²

721	808	890	773	764
762	939	1028	944	916
804	1064	1237	1123	985
818	1018	1181	1098	939
891	939	1073	1066	938

G.O.D-9 @ 120cm (9 engines on)

Average PPF: 948 μ mol/s.m²

438	476	513	561	584
469	629	815	689	521
528	836	1184	884	559
681	681	888	888	688
612	471	514	468	376

G.O.D-9 @ 130cm (8 engines on)

Average PPF: 592 μ mol/s.m²

488	494	582	486	428
489	618	825	688	523
556	814	1118	890	615
488	718	961	737	514
456	514	618	514	415

G.O.D-9 @ 140cm (8 engines on)

Average PPF: 514 μ mol/s.m²

354	400	464	387	392
390	468	590	528	440
463	612	781	667	513
480	540	688	587	463
391	468	552	468	397

G.O.D-9 @ 160cm (8 engines on)

Average PPF: 481 μ mol/s.m²

380	388	387	467	366
368	412	478	412	434
411	457	585	516	464
381	483	557	514	432
308	437	506	432	436

G.O.D-9 @ 120cm (8 engines on)

Average PPF: 415 μ mol/s.m²

- Energy Used: 434w
- Amps: 2
- Voltage: 110 - 277v
- Dimensions: 48 x 49 x 6cm
- Weight: 9kg

BUDMASTER H.C.

Budmaster HC (Horticultural COB)

The new Cited Horticultural COB is far and above the best horticultural COB on the market. Giving huge amounts of evenly distributed PPF from a small, compact and long lasting package as you would expect from the inventors of the COB. The immediate benefits are:

More efficient than standard white COB due to a higher amount of useable PPF.

The warm creamy pink light from the COB makes plant inspection simple at any time.

Efficient, long lasting and well researched phosphor specifically designed for horticulture.

BUDMASTER HC-2



- LED's : Cited Horticultural LED
- PPF (Total): 132 μ mol
- PPF (Efficiency): 1.33 μ mol/j
- Use / Replaces: Closet Grow or Supplemental
- Energy Used: 100w
- Amps: 0.45
- Dimensions: 19 x 32 x 6cm
- Weight: 2kg
- Warranty: 3 Years
- Coverage: 40 x 40cm

Budmaster HC-2 PPFD Maps for 40 x 80 x 160cm Space (Lamp hung at 150cm)

666	667	667	666	666
666	667	667	666	666
666	667	667	666	666

HC-2 @30cm

Average PPF: 666 μ mol/s-m²

551	551	550	550	550
551	551	550	550	550
551	551	550	550	550

HC-2 @60cm

Average PPF: 550 μ mol/s-m²

305	305	304	304	304
305	305	304	304	304
305	305	304	304	304

HC-2 @90cm

Average PPF: 304 μ mol/s-m²

191	191	191	191	191
191	191	191	191	191
191	191	191	191	191

HC-2 @120cm

Average PPF: 191 μ mol/s-m²

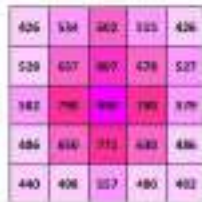
BUDMASTER HC-4



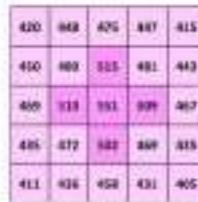
- LED's : Cited Horticultural LED
- PPF (Total): 264 μ mol
- PPF (Efficiency): 1.33 μ mol/j
- Use / Replaces: 250w HPS
- Warranty: 3 Years
- Coverage: 80 x 80cm

- Energy Used: 200w
- Amps: 0.9
- Voltage: 110 - 277v
- Dimensions: 32 X 32 x 6cm
- Weight: 4kg

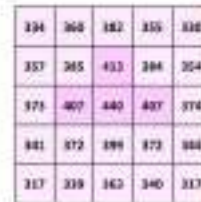
Budmaster HC-4 PPF Maps for 100 x 100x 200 cm Space (Lamp hung at 190cm)



HC-4 @30cm (4 engines on)
Average PPF: 593 μ mol/s/m²



HC-4 @80cm (4 engines on)
Average PPF: 463 μ mol/s/m²



HC-4 @180cm (4 engines on)
Average PPF: 346 μ mol/s/m²



HC-4 @120cm (4 engines on)
Average PPF: 364 μ mol/s/m²



HC-4 @16cm (2 engines on)
Average PPF: 125 μ mol/s/m²



HC-4 @60cm (2 engines on)
Average PPF: 206 μ mol/s/m²

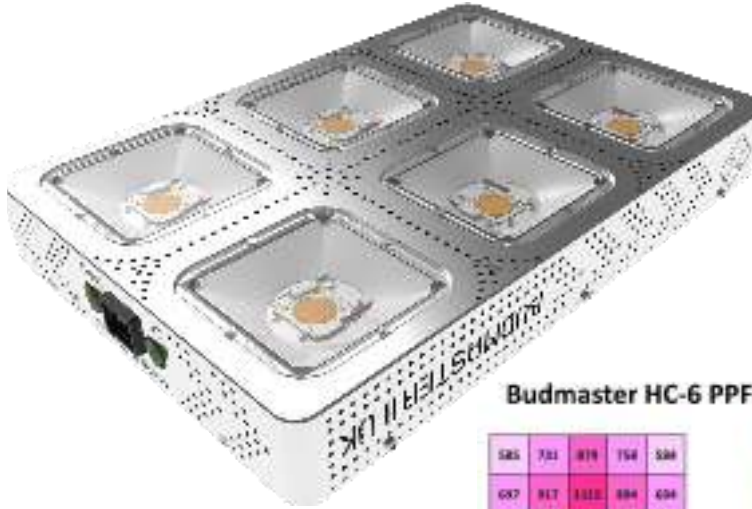


HC-4 @90cm (2 engines on)
Average PPF: 213 μ mol/s/m²



HC-4 @120cm (2 engines on)
Average PPF: 206 μ mol/s/m²

BUDMASTER HC-6



LED's : Cited Horticultural LED
 PPF (Total): 396 μ mol
 PPF (Efficiency): 1.33 μ mol/j
 Use / Replaces: 400w HPS
 Warranty: 3 Years
 Coverage: 80 x 120cm

Budmaster HC-6 PPF Maps for 100 x 100 x 200 cm Space (Lamp hung at 190cm)

585	731	819	754	588
607	817	1011	884	694
793	1046	1409	1208	798
651	861	1070	884	631
559	696	813	720	561

HC-6 @30cm (6 engines on)
 Average PPF: 811 μ mol/m²

682	833	978	836	687
628	877	1205	871	618
685	109	139	109	648
604	815	125	834	605
566	807	647	601	562

HC-6 @85cm (6 engines on)
 Average PPF: 845 μ mol/m²

491	529	366	531	492
525	567	468	545	514
541	595	444	595	547
499	542	385	546	501
459	495	331	501	464

HC-6 @180cm (6 engines on)
 Average PPF: 518 μ mol/m²

513	529	498	531	501
513	488	471	496	532
489	488	446	466	490
514	489	444	491	517
513	511	484	516	544

HC-6 @120cm (6 engines on)
 Average PPF: 502 μ mol/m²

517	581	487	447	546
370	484	604	533	423
397	544	718	588	455
393	434	585	538	408
385	371	468	428	353

HC-6 @30cm (3 engines on)
 Average PPF: 452 μ mol/m²

588	368	384	386	514
328	367	421	406	375
370	405	445	421	390
507	577	451	591	548
327	352	383	361	345

HC-6 @85cm (3 engines on)
 Average PPF: 578 μ mol/m²

290	282	386	290	278
378	304	330	311	298
293	512	353	331	307
271	297	326	386	298
351	274	387	288	264

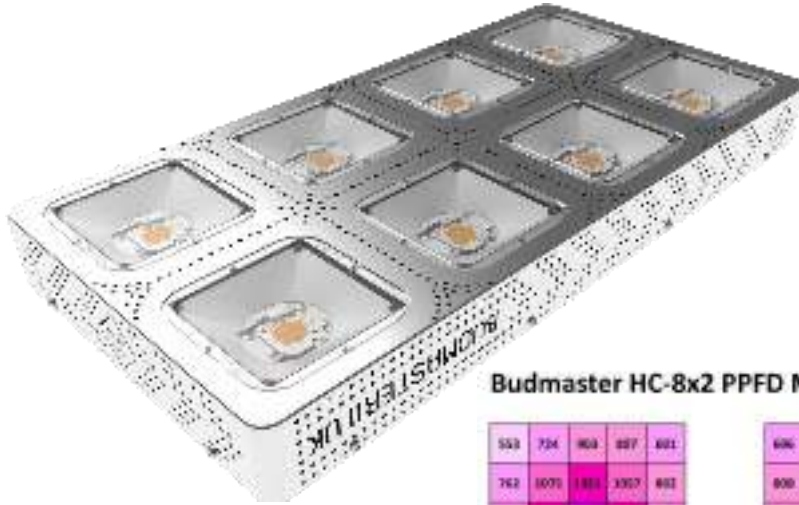
HC-6 @180cm (3 engines on)
 Average PPF: 289 μ mol/m²

288	274	280	273	284
272	260	347	261	277
254	244	234	247	259
267	285	248	258	278
281	264	253	271	287

HC-6 @120cm (3 engines on)
 Average PPF: 264 μ mol/m²

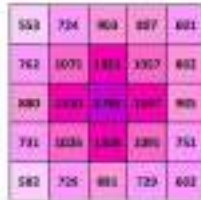
Energy Used: 300w
 Amps: 1.36
 Voltage: 110 - 277v
 Dimensions: 49 X 32 x 6cm
 Weight: 6kg

BUDMASTER HC-8

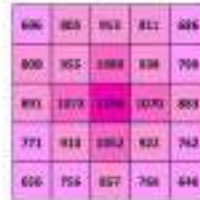


LED's : Cited Horticultural LED
 PPF (Total): 528μmol
 PPF (Efficiency): 1.33μmol/j
 Use / Replaces: 600w HPS
 Warranty: 3 Years
 Coverage: 160 x 80cm

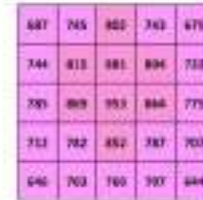
Budmaster HC-8x2 PPF Maps for 150 x 150 x 200 cm Space (Lamp hung at 190cm)



HC-8x2 @30cm (35 engines on)
 Average PPF: 922μmol/s/m2



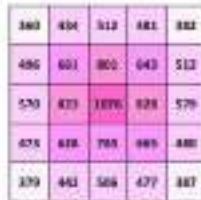
HC-8x2 @60cm (18 engines on)
 Average PPF: 873μmol/s/m2



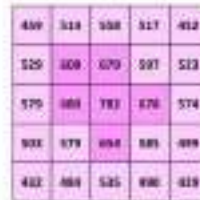
HC-8x2 @90cm (11 engines on)
 Average PPF: 766μmol/s/m2



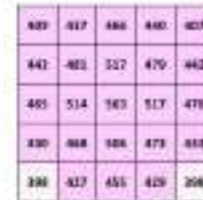
HC-8x2 @120cm (6 engines on)
 Average PPF: 728μmol/s/m2



HC-8 @30cm (8 engines on)
 Average PPF: 573μmol/s/m2



HC-8 @60cm (8 engines on)
 Average PPF: 513μmol/s/m2



HC-8 @90cm (8 engines on)
 Average PPF: 433μmol/s/m2



HC-8 @120cm (8 engines on)
 Average PPF: 409μmol/s/m2

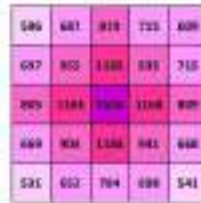
Energy Used: 400w
 Amps: 1.8
 Voltage: 110 - 277v
 Dimensions: 63 X 32 x 6cm
 Weight: 8kg

BUDMASTER HC-9

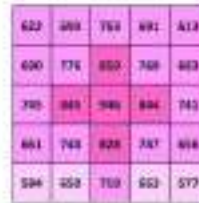


LED's : Cited Horticultural LED
 PPF (Total): 594 μ mol
 PPF (Efficiency): 1.33 μ mol/j
 Use / Replaces: 600w HPS
 Warranty: 3 Years
 Coverage: 120 x 120cm

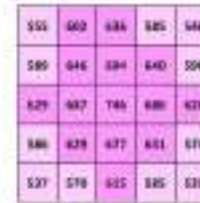
Budmaster HC-9 PPF Maps for 120 x 120x 200 cm Space (Lamp hung at 190cm)



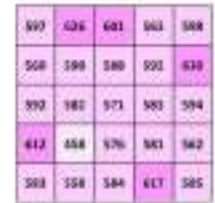
HC-9 @30cm (3 engines on)
 Average PPF: 837 μ mol/s/m²



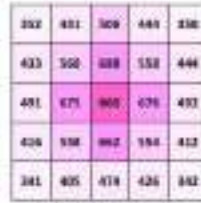
HC-9 @80cm (2 engines on)
 Average PPF: 733 μ mol/s/m²



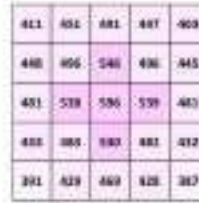
HC-9 @100cm (2 engines on)
 Average PPF: 608 μ mol/s/m²



HC-9 @120cm (2 engines on)
 Average PPF: 508 μ mol/s/m²



HC-9 @160cm (1 engine on)
 Average PPF: 501 μ mol/s/m²



HC-9 @180cm (1 engine on)
 Average PPF: 386 μ mol/s/m²



HC-9 @200cm (1 engine on)
 Average PPF: 318 μ mol/s/m²



HC-9 @120cm (1 engine on)
 Average PPF: 311 μ mol/s/m²

Energy Used: 450w
 Amps: 2
 Voltage: 110 - 277v
 Dimensions: 48 X 49 x 6cm
 Weight: 9kg

BUDMASTER H.P.S.

Budmaster HPS (High Pressure Sunlight) Enhanced White Spectrum

Budmaster HPS (High Pressure Sunlight) has been designed to give the best of both worlds to growers who wish to grow under a primarily white light source to provide an exceptional lamp that will provide a repeatable yield year on year.

By combining a flat sunlight like peak for all colours and then boosting the primary photosynthesis driving colours of blue and red to ensure maximum photosynthesis and phytochrome stimulation, and course the infra-red has been kept in check to stop your plants stretching too much.

Our superior build ensures that our lamps continue to give you repeatable and reliable results year on year by dropping less than 1% output per year.

Our lamps are all UK designed and built ensuring the highest quality standards available in the industry, this shows in the durability and longevity of our light engines, in 4 years of trading we have not lost a single osram diode to failure of any kind and have thousands of very happy customers all over the globe.

BUDMASTER H.P.S-2



LED's : Osram SSL Horticultural LED
PPF (Total): 96 μ mol
PPF (Efficiency): 1.22 μ mol/j
Use / Replaces: Closet Grow or Supplemental
Energy Used: 80w
Amps: 0.36
Dimensions: 19 x 32 x 6cm
Weight: 2kg
Warranty: 3 Years
Coverage: 40 x 40cm

Budmaster HPS-2 PPF Maps for 40 x 80cm x 160 Space (Lamp hung at 150cm)

513	509	504	499	495
513	509	504	499	495
513	509	504	499	495

HP5-2 @30cm

Average PPF: 504 μ mol/s-m²

480	473	468	461	454
480	473	468	461	454
480	473	468	461	454

HP5-2 @60cm

Average PPF: 467 μ mol/s-m²

350	344	339	333	327
350	344	339	333	327
350	344	339	333	327

HP5-2 @90cm

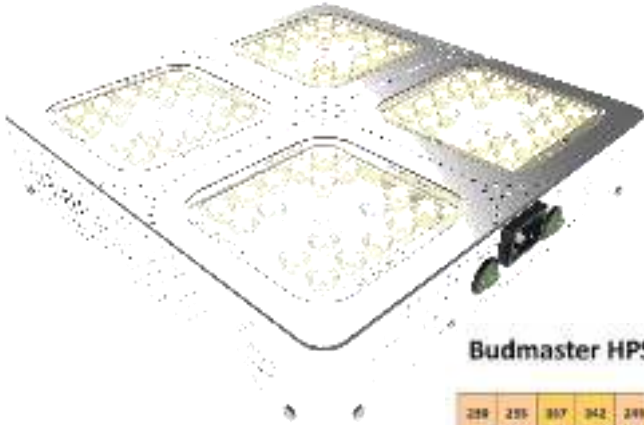
Average PPF: 338 μ mol/s-m²

228	224	220	216	212
228	224	220	216	212
228	224	220	216	212

HP5-2 @120cm

Average PPF: 220 μ mol/s-m²

BUDMASTER H.P.S-4



LED's : Osram SSL Horticultural LED
 PPF (Total): 192µmol
 PPF (Efficiency): 1.22µmol/j
 Use / Replaces: 400w HPS
 Warranty: 3 Years
 Coverage: 80 x 80cm

Budmaster HPS-4 PPF Maps for 100 x 100cm x 200 Space (Lamp hung at 190cm)

Energy Used: 160w
 Amps: 0.72
 Voltage: 100 - 240v
 Dimensions: 32 X 32 x 6cm
 Weight: 4kg

288	295	307	342	288
424	483	419	419	478
568	600	670	638	583
503	481	400	508	438
213	308	379	348	281

HPS-4 @200cm (4 angles on)
 Average PPF: 433 µmol/m²

321	378	344	308	218
283	408	508	408	218
333	407	479	331	304
390	394	321	483	300
226	298	358	308	218

HPS-4 @190cm (4 angles on)
 Average PPF: 362 µmol/m²

298	297	318	378	318
351	355	418	355	298
301	413	340	440	318
258	340	496	378	298
308	298	328	290	218

HPS-4 @90cm (4 angles on)
 Average PPF: 315 µmol/m²

278	278	294	298	281
282	311	318	312	338
294	311	318	308	330
298	311	351	340	330
278	288	308	312	280

HPS-4 @120cm (4 angles on)
 Average PPF: 309 µmol/m²

128	128	128	138	188
188	187	310	310	138
168	338	408	311	304
140	338	378	304	187
128	188	201	198	181

HPS-4 @80cm (2 angles on)
 Average PPF: 238 µmol/m²

138	138	138	138	109
158	218	255	283	148
187	248	340	298	182
190	188	288	291	142
107	138	138	138	114

HPS-4 @60cm (2 angles on)
 Average PPF: 301 µmol/m²

128	188	138	188	138
110	206	238	283	158
172	228	185	348	188
141	183	298	212	188
120	188	182	187	118

HPS-4 @90cm (2 angles on)
 Average PPF: 188 µmol/m²

148	181	188	188	148
152	188	178	167	158
151	175	204	188	187
148	181	194	184	188
148	188	188	188	162

HPS-4 @120cm (2 angles on)
 Average PPF: 163 µmol/m²

BUDMASTER H.P.S-6



LED's : Osram SSL Horticultural LED
 PPF (Total): 288µmol
 PPF (Efficiency): 1.22µmol/j
 Use / Replaces: 600w HPS
 Warranty: 3 Years
 Coverage: 80 x 120cm

Budmaster HPS-6 PPF Maps for 100 x 100cm x 200 Space (Lamp hung at 190cm)

264	378	509	661	838
384	546	730	949	1217
435	739	1185	1612	2084
579	805	1159	1608	208
659	820	918	1165	1494

HPS-6 @200cm (3 angles on)
 Average PPF: 547 µmol/s/m²

289	384	481	628	818
378	512	667	852	1113
427	628	909	1218	1572
581	578	719	881	994
686	665	823	1036	1215

HPS-6 @190cm (3 angles on)
 Average PPF: 488 µmol/s/m²

358	502	668	881	1148
474	673	907	1200	1562
524	755	1023	1351	1755
677	667	804	973	1188
783	671	817	1010	1218

HPS-6 @180cm (3 angles on)
 Average PPF: 440 µmol/s/m²

483	641	827	1078	1390
606	789	1033	1368	1731
676	841	1043	1352	1744
888	885	1095	1408	1737
1000	889	1103	1418	1746

HPS-6 @170cm (3 angles on)
 Average PPF: 412 µmol/s/m²

187	288	418	567	729
243	353	494	669	863
257	405	563	727	931
329	384	491	629	787
398	385	491	614	738

HPS-6 @160cm (3 angles on)
 Average PPF: 318 µmol/s/m²

140	204	283	379	498
181	255	353	467	605
195	333	459	596	767
285	277	363	481	616
331	298	399	526	684

HPS-6 @150cm (3 angles on)
 Average PPF: 268 µmol/s/m²

170	209	287	381	497
206	265	363	481	616
221	315	431	556	719
304	263	345	450	582
353	275	367	480	608

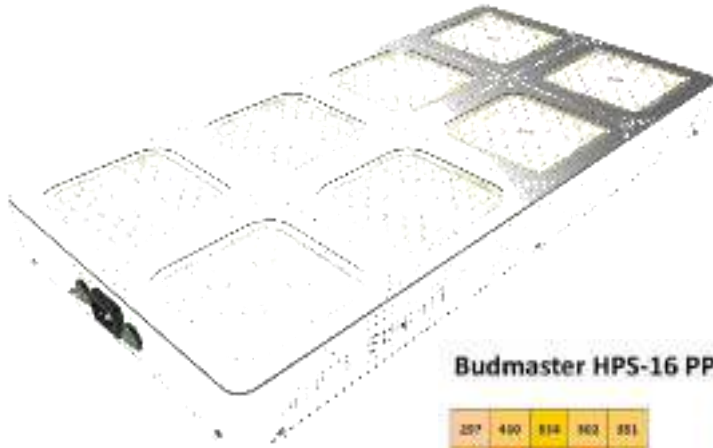
HPS-6 @140cm (3 angles on)
 Average PPF: 218 µmol/s/m²

106	138	188	252	328
141	188	258	338	437
158	248	338	438	552
218	188	248	327	428
218	221	293	372	486

HPS-6 @130cm (3 angles on)
 Average PPF: 180 µmol/s/m²

Energy Used: 240w
 Amps: 1.08
 Voltage: 100 - 240v
 Dimensions: 49 X 32 x 6cm
 Weight: 6kg

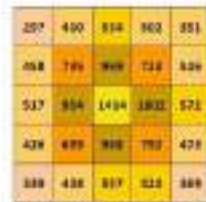
BUDMASTER H.P.S-8



LED's : Osram SSL Horticultural LED
 PPF (Total): 384µmol
 PPF (Efficiency): 1.22µmol/j
 Use / Replaces: 600w HPS
 Warranty: 3 Years
 Coverage: 160 x 80cm

Energy Used: 320w
 Amps: 1.44
 Voltage: 100 - 240v
 Dimensions: 63 X 32 x 6cm
 Weight: 8kg

Budmaster HPS-16 PPF Maps for 150 x 150cm x 200 Space (Lamp hung at 190cm)



HPS-16 @30cm (16 engines on)
 Average PPF: 621µmol/s/m2



HPS-16 @60cm (16 engines on)
 Average PPF: 532µmol/s/m2



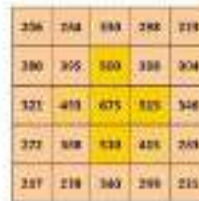
HPS-16 @90cm (16 engines on)
 Average PPF: 533µmol/s/m2



HPS-16 @120cm (16 engines on)
 Average PPF: 588µmol/s/m2



HPS-16 @30cm (8 engines on)
 Average PPF: 388µmol/s/m2



HPS-16 @60cm (8 engines on)
 Average PPF: 350µmol/s/m2

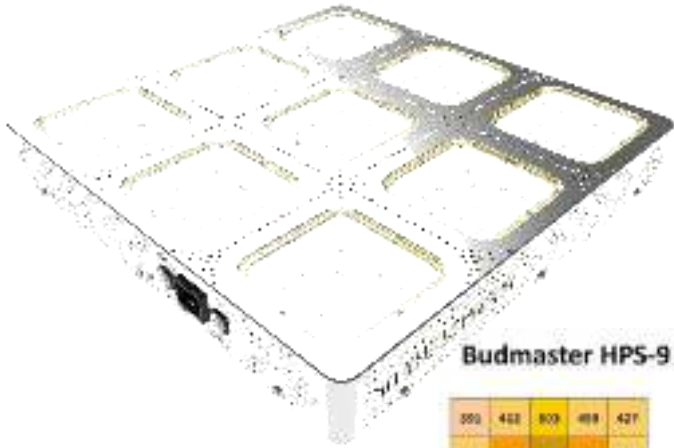


HPS-16 @90cm (8 engines on)
 Average PPF: 328µmol/s/m2



HPS-16 @120cm (8 engines on)
 Average PPF: 323µmol/s/m2

BUDMASTER H.P.S-9



LED's : Osram SSL Horticultural LED

PPF (Total): 432 μ mol

PPF (Efficiency): 1.22 μ mol/j

Use / Replaces: 600w HPS

Warranty: 3 Years

Coverage: 120 x 120cm

Budmaster HPS-9 PPF Maps for 120 x 120cm x 200 Space (Lamp hung at 190cm)

350	432	303	408	427
448	579	305	419	482
464	681	1200	813	537
429	681	912	711	445
312	422	311	382	384

HPS-8 @200cm (5 angles on)
Average PPF: 584 μ mol/m²

388	411	333	438	343
427	415	798	620	618
482	774	1898	828	518
411	905	833	697	442
326	412	338	481	313

HPS-8 @190cm (5 angles on)
Average PPF: 549 μ mol/m²

311	358	382	418	312
326	588	679	511	462
406	905	885	713	517
397	515	700	540	419
318	360	342	411	313

HPS-8 @180cm (5 angles on)
Average PPF: 493 μ mol/m²

387	428	494	514	381
396	488	516	518	434
447	551	674	555	499
427	490	584	551	437
371	484	486	378	436

HPS-8 @120cm (5 angles on)
Average PPF: 470 μ mol/m²

218	230	318	298	284
278	486	314	413	333
515	529	714	501	397
279	436	527	449	284
218	235	315	318	241

HPS-9 @300cm (5 angles on)
Average PPF: 341 μ mol/m²

194	248	303	284	208
258	316	459	397	272
382	442	604	485	315
336	318	459	376	262
188	216	309	278	209

HPS-9 @200cm (5 angles on)
Average PPF: 317 μ mol/m²

219	262	401	258	218
253	314	469	340	278
292	406	579	416	319
278	345	437	327	264
226	265	311	270	213

HPS-9 @180cm (5 angles on)
Average PPF: 309 μ mol/m²

245	279	288	261	281
248	287	342	317	286
288	334	456	318	308
269	381	312	312	275
244	256	336	263	260

HPS-9 @120cm (5 angles on)
Average PPF: 280 μ mol/m²

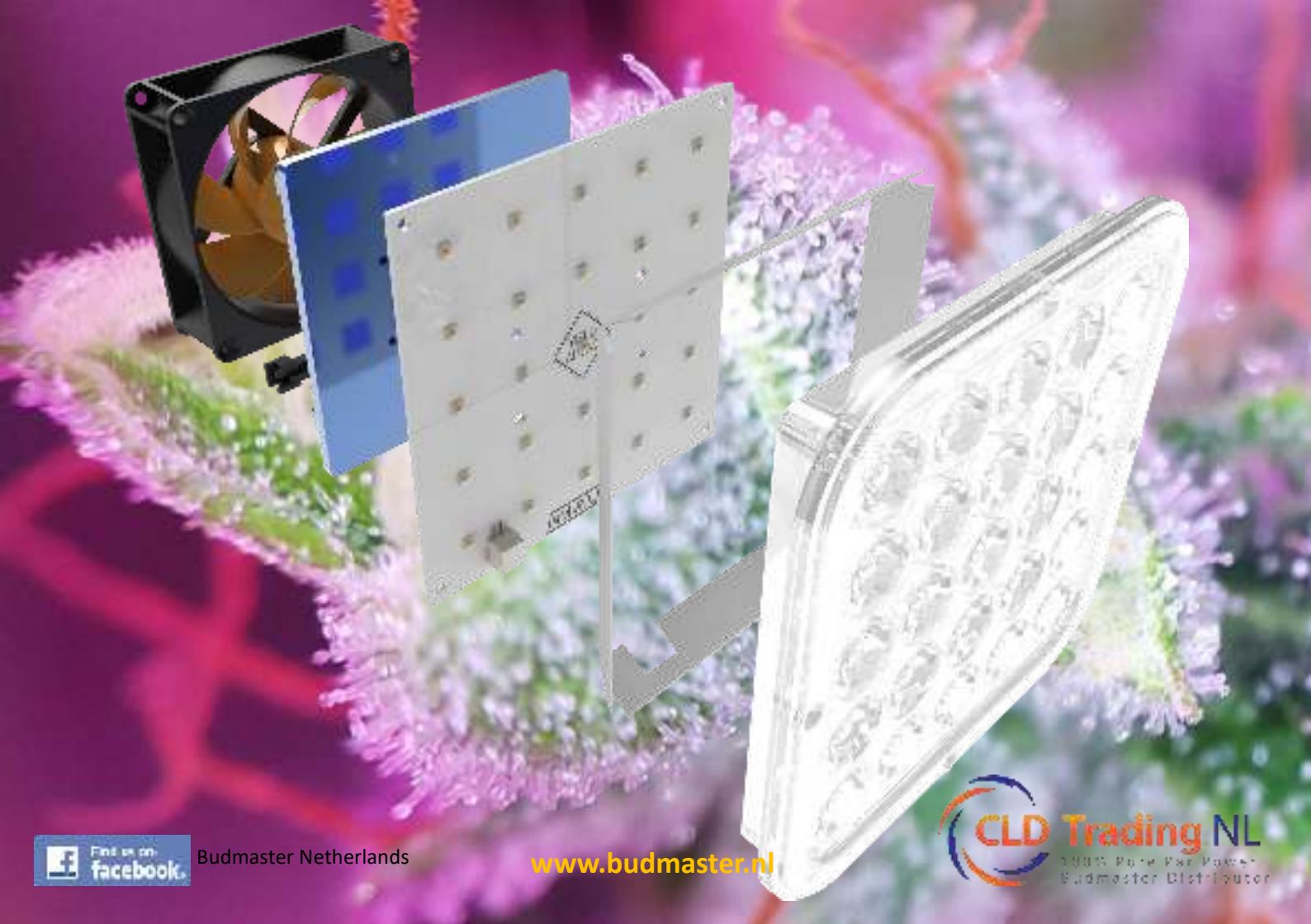
Energy Used: 360w

Amps: 1.62

Voltage: 100 - 240v

Dimensions: 48 X 49 x 6cm

Weight: 9kg



Budmaster Netherlands

www.budmaster.nl

