

BBH Transformers

low profile encapsulated

120/240V Primary



A range of low profile mains transformers suitable for use in compact or slimline equipment where space is at a premium. The transformers are mounted in resin filled thermoplastic cases and are designed to be through hole soldered to PCB's. Mechanical fixing is by way of 4xNo.6 screws using holes moulded into the corners of the case.

The twin primary and secondary windings are wound on separate bobbins giving maximum isolation for enhanced safety and low capacitive coupling. The near circular shape of the transformer core results in low magnetic flux leakage. The transformer primaries can be connected in series for 240V ac input and similarly the two secondary windings can be connected to give various voltage/current output combinations.

All transformers are subjected to 4kV ac insulation tests and manufactured to IEC65 Class 2, VDE 0550 Class 2, BS415 Class 2 and Insulation classification E 120°C. Secondary voltage tolerance within 5% at full load.

2VA-34% typical regulation
Order Code
FEC BBH

1VA per secondary winding

0-6V, 0-6V @ 0.17A	149-158	Z2594
0-9V, 0-9V @ 0.11A	149-159	Z2595
0-12V, 0-12V @ 0.085A	149-160	Z2596
0-15V, 0-15V @ 0.06A	178-363	Z2597
0-18V, 0-18V @ 0.056A	178-364	Z2598
0-24V, 0-24V @ 0.042A	178-365	Z2599

4VA-24% typical regulation
2VA per secondary winding

0-6V, 0-6V @ 0.33A	149-161	Z2601
0-9V, 0-9V @ 0.22A	149-162	Z2602
0-12V, 0-12V @ 0.165A	149-163	Z2603
0-15V, 0-15V @ 0.134A	178-366	Z2604
0-18V, 0-18V @ 0.11A	178-367	Z2605
0-24V, 0-24V @ 0.083A	178-368	Z2606

6VA-22% typical regulation
3VA per secondary winding

0-6V, 0-6V @ 0.5A	178-369	Z2608
0-9V, 0-9V @ 0.33A	149-164	Z2609
0-12V, 0-12V @ 0.25A	149-165	Z2610
0-15V, 0-15V @ 0.2A	149-166	Z2611
0-18V, 0-18V @ 0.165A	149-167	Z2612
0-24V, 0-24V @ 0.125A	178-370	Z2613

10VA-26% typical regulation
Order Code
FEC BBH

5VA per secondary winding

0-6V, 0-6V @ 0.83A	178-371	Z2615
0-9V, 0-9V @ 0.55A	149-168	Z2616
0-12V, 0-12V @ 0.42A	149-169	Z2617
0-15V, 0-15V @ 0.335A	149-170	Z2618
0-18V, 0-18V @ 0.28A	178-372	Z2619
0-24V, 0-24V @ 0.21A	178-373	Z2620

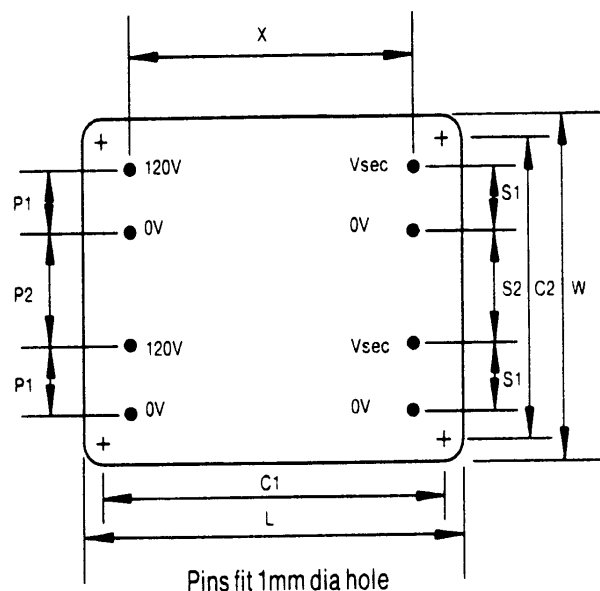
18VA-17% typical regulation
9VA per secondary winding

0-6V, 0-6V @ 1.5A	178-374	Z2629
0-9V, 0-9V @ 1A	149-171	Z2630
0-12V, 0-12V @ 0.75A	149-172	Z2631
0-15V, 0-15V @ 0.6A	149-980	Z2632
0-18V, 0-18V @ 0.5A	178-375	Z2633
0-24V, 0-24V @ 0.375A	178-376	Z2634

30VA-16% typical regulation
15VA per secondary winding

0-6V, 0-6V @ 2.5A	178-377	Z2643
0-9V, 0-9V @ 1.6A	177-157	Z2644
0-12V, 0-12V @ 1.25A	177-158	Z2645
0-15V, 0-15V @ 1A	178-378	Z2646
0-18V, 0-18V @ 0.83A	178-379	Z2647
0-24V, 0-24V @ 0.625A	178-380	Z2648

Outline drawing



Dimensions (refer to drawing)

VA Rating	Overall Size			Fixing Centres		Pin Configuration					Weight grams
	L	W	H	C1	C2	P1	P2	S1	S2	X	
2.0	53	44	17	47.5	37.5	10	15	5	25	35	115
4.0	53	44	19	47.5	37.5	10	15	5	25	35	145
6.0	53	44	22.6	47.5	37.5	10	15	5	25	35	175
10.0	68	57	22.8	62.5	50	15	15	10	26	45	280
18.0	68	57	27.6	62.5	50	15	15	10	26	45	375
30.0	68	57	35.8	62.5	50	15	15	10	26	45	515

H. EXCLUDES PINS