



**BSN10A-3S**

2.0 × 0.5 × 0.3 inch  
50.8 × 12.7 × 8.1 mm



**BSN12A-5S**

2.0 × 1.0 × 0.33 inch  
50.8 × 25.4 × 8.4 mm



**BSN16A-12S  
BSN10A-12SX**

2.0 × 0.5 × 0.3 inch  
50.8 × 12.7 × 8.1 mm



**ESR15-48S  
ESR20-48S**

2.28 × 0.9 × 0.38 inch  
57.9 × 22.8 × 9.6 mm

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### Isolated DC-DC 1/8-Brick Single-Output

Input Voltage (Vdc)	Output Voltage (Vdc)	Output Trim (Vdc)	Max. Output Current (A)	Max. Output Power (W)	Efficiency (%)	Model Number
Nominal 48Vdc Input						
36 to 75	1.8	1.5 to 1.9	15	27	87	ESR15-48S1V8
36 to 75	1.8	1.5 to 1.9	20	36	87	ESR20-48S1V8
36 to 75	2.5	2 to 2.7	15	35.7	88	ESR15-48S2V5
36 to 75	2.5	2 to 2.7	20	50	88	ESR20-48S2V5
36 to 75	3.3	2.7 to 3.6	15	49.5	89	ESR15-48S3V3
36 to 75	3.3	2.7 to 3.6	20	66	89	ESR20-48S3V3
36 to 75	8	7.2 to 8.8	4	32	90	ESR04-48S8
36 to 75	8	7.2 to 8.8	6	48	90	ESR06-48S8
36 to 75	12	10.8 to 13.2	4	48	92	ESR04-48S12
36 to 75	12	10.8 to 13.2	6	72	92	ESR06-48S12

### Isolated DC-DC 1/4-Brick Single-Output

Input Voltage (Vdc)	Output Voltage (Vdc)	Output Trim (Vdc)	Max. Output Current (A)	Max. Output Power (W)	Efficiency (%)	Model Number
Nominal 24Vdc Input						
18 to 36	1.8	1.62 to 1.98	15	27	87	QSR15-24S1V8
18 to 36	1.8	1.62 to 1.98	25	45	87	QSR25-24S1V8
18 to 36	2.5	2.25 to 2.75	15	37.5	89	QSR15-24S2V5
18 to 36	2.5	2.25 to 2.75	25	62.5	88	QSR25-24S2V5
18 to 36	3.3	3 to 3.6	15	49.5	91	QSR15-24S3V3
18 to 36	3.3	3 to 3.6	25	82.5	91	QSR25-24S3V3
Nominal 48Vdc Input						
36 to 75	1.8	1.62 to 1.98	15	27	87	QSR15-48S1V8
36 to 75	1.8	1.62 to 1.98	25	45	87	QSR25-48S1V8
36 to 75	2.5	2.25 to 2.75	15	37.5	90	QSR15-48S2V5
36 to 75	2.5	2.25 to 2.75	25	62.5	88	QSR25-48S2V5
36 to 75	3.3	3 to 3.6	15	49.5	91	QSR15-48S3V3
36 to 75	3.3	3 to 3.6	25	82.5	91	QSR25-48S3V3
36 to 75	5	4.5 to 5.5	10	50	91	QSR10-48S5
36 to 75	5	4.5 to 5.5	20	100	91	QSR20-48S5

Notes: The standard product features Remote On/Off Positive Logic, the Negative Logic is optional by adding the suffix "-L" to the Model Number. For example, a ESR20-48S1V8 with Negative Logic On/Off is ESR20-48S1V8-L.

### Isolated DC-DC 1/4-Brick Dual-Output

Input Voltage (Vdc)	Output Voltage (Vdc)	Output Trim (Vdc)	Max. Output Current (A)	Max. Output Power (W)	Efficiency (%)	Model Number
Nominal 48Vdc Input						
36 to 75	+3.3	3 to 3.6 (optional)	10	44	83	QSR20-48D3V31V2
	+1.2	0.96 to 1.32	13	100+100 ≤ 21A		



### Isolated DC-DC 1/4-Brick Dual-Output

Input Voltage (Vdc)	Output Voltage (Vdc)	Output Trim (Vdc)	Max. Output Current (A)	Max. Output Power (W)	Efficiency (%)	Model Number
Nominal 48Vdc Input(Continued)						
36 to 75	+3.3 +1.5	3 to 3.6(optional) 1.2 to 1.65	10 12	48 $I_{in+I_{out}} \leq 21A$	85	QSR20-48D3V31V5
36 to 75	+5.0 +3.3	4.5 to 5.5(optional) 3 to 3.6	10 15	100	88	QSR20-48D053V3
36 to 75	+5.0 -5.0	4.5 to 5.5 -4.5 to -5.5	6.5 -6.5	65	86	QSR06-48D5
36 to 75	+12 -12	10.8 to 13.2 -10.8 to -13.2	2.5 -2.5	60	88	QSR05-48D12

Notes: The standard product features Remote On/Off Positive Logic the Negative Logic is optional by adding the suffix "-L" to the Model Number. For example, a QSR20-48D3V31V2 with Negative Logic On/Off is QSR20-48D3V31V2-L.

### Isolated DC-DC 1/2-Brick Single-Output

Input Voltage (Vdc)	Output Voltage (Vdc)	Output Trim (Vdc)	Max. Output Current (A)	Max. Output Power (W)	Efficiency (%)	Model Number
Nominal 24Vdc Input						
18 to 36	3.3	3 to 3.6	12	40	88	HC-050ASB
18 to 36	3.3	3 to 3.6	20	66	88	HSR-066ASB
18 to 36	3.3	3 to 3.6	30	100	88	HSR-100ASB
18 to 36	3.3	3 to 3.6	40	133	88	HSR-133ASB
18 to 36	5	4.5 to 5.5	6	30	89	HC-0301SB
18 to 36	5	4.5 to 5.5	10	50	89	HC-0501SB
18 to 36	5	4.5 to 5.5	10	50	89	HSR-0501SB
18 to 36	5	4.5 to 5.5	20	100	88	HSR-1001SB
18 to 36	5	4.5 to 5.5	30	150	89	HSR-1501SB
18 to 36	5	4.5 to 5.5	40	200	89	HSR-2001SB
18 to 36	12	10.8 to 13.2	4.2	50	85	HDR-0502SB
18 to 36	12	10.8 to 13.2	8.4	100	85	HDR-1002SB
18 to 36	12	10.8 to 13.2	12.5	150	88	HDR-1502SB
18 to 36	15	13.5 to 16.5	3.3	50	85	HDR-0503SB
18 to 36	15	13.5 to 16.5	6.6	100	85	HDR-1003SB
18 to 36	15	13.5 to 16.5	10	150	88	HDR-1503SB
18 to 36	24	21.6 to 26.4	2.1	50	86	HDR-0504SB
18 to 36	24	21.6 to 26.4	4.2	100	86	HDR-1004SB
18 to 36	28	25.2 to 30.8	1.8	50	86	HDR-05028SB
18 to 36	48	43.2 to 52.8	1.04	50	86	HDR-0505SB
18 to 36	48	43.2 to 52.8	3.1	150	86	HDR-1505SB
Nominal 48Vdc Input						
36 to 72	2.5	2.25 to 2.75	8	20	81	HC-030BSC
36 to 72	2.5	2.25 to 2.75	12	30	81	HC-050BSC
36 to 72	2.5	2.25 to 2.75	20	50	83	HSR-050BSC
36 to 72	2.5	2.25 to 2.75	30	75	82	HSR-075BSC
36 to 72	3.3	3 to 3.6	8	26.4	85	HC-030ASC
36 to 72	3.3	3 to 3.6	12	40	85	HC-050ASC
36 to 72	3.3	3 to 3.6	15	50	88	HSR-050ASC
36 to 72	3.3	3 to 3.6	20	66	88	HSR-066ASC



**ESR04-48S  
ESR06-48S**

2.28 × 0.9 × 0.39 inch  
57.9 × 22.8 × 9.8 mm



**QSR15 & QSR25**

2.28 × 1.45 × 0.43 inch  
57.9 × 36.8 × 11 mm



**QSR20-48D3V3**

2.28 × 1.45 × 0.43 inch  
57.9 × 36.8 × 11 mm



**QSR20-48D05**

2.28 × 1.45 × 0.43 inch  
57.9 × 36.8 × 11 mm



*Isolated DC-DC 1/2-Brick Single-Output*



**QSR05 & QSR06**

2.22 × 1.45 × 0.5 inch  
56.4 × 36.8 × 12.7 mm



**HSR & HDR**

2.4 × 2.28 × 0.5 inch  
61 × 57.9 × 12.7 mm



**HC-030**

2.4 × 2.23 × 0.5 inch  
61 × 57.9 × 12.7 mm



**HSR-075  
HDR Dual-Output**

2.4 × 2.28 × 0.5 inch  
61 × 57.9 × 12.7 mm

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Input Voltage (Vdc)	Output Voltage (Vdc)	Output Trim (Vdc)	Max. Output Current (A)	Max. Output Power (W)	Efficiency (%)	Model Number
Nominal 48Vdc Input (Continued)						
36 to 72	3.3	3 to 3.6	30	100	86	HSR-100ASC
36 to 72	3.3	3 to 3.6	40	133	88	HSR-133ASC
36 to 72	5	4.5 to 5.5	6	30	88	HC-0301SC
36 to 72	5	4.5 to 5.5	10	50	88	HC-0501SC
36 to 72	5	4.5 to 5.5	10	50	89	HSR-0501SC
36 to 72	5	4.5 to 5.5	20	100	88	HSR-1001SC
36 to 72	5	4.5 to 5.5	30	150	86	HSR-1501SC
36 to 72	5	4.5 to 5.5	40	200	90	HSR-2001SC
36 to 72	9	6 to 9.9	13	120	84	HDR-1209SC
36 to 72	12	10.8 to 13.2	4.2	50	86	HDR-0502SC
36 to 72	12	10.8 to 13.2	8.4	100	85	HDR-1002SC
36 to 72	12	10.8 to 13.2	12.5	150	86	HDR-1502SC
36 to 72	15	13.5 to 16.5	3.3	50	87	HDR-0503SC
36 to 72	15	13.5 to 16.5	5	75	87	HDR-0753SC
36 to 72	15	13.5 to 16.5	6.6	100	85	HDR-1003SC
36 to 72	15	13.5 to 16.5	10	150	85	HDR-1503SC
36 to 72	20	18 to 22	2.5	50	88	HC-05020SC
36 to 72	24	21.6 to 26.4	2.1	50	86	HDR-0504SC
36 to 72	24	21.6 to 26.4	4.2	100	86	HDR-1004SC
36 to 72	24	21.6 to 26.4	6.25	150	88	HDR-1504SC
36 to 72	26	23.4 to 28.6	5.8	150	87	HDR-15026SC
36 to 72	28	25.2 to 30.8	10.8	300	88	HDR-30028SC
36 to 72	40	40 to 60	1	50	87	HDR-0505SC/Z
Nominal 280Vdc Input						
200-400	48	43.2 to 52.8	1	50	86	HDR-0505SE

Notes: 1. The standard product features Remote On/Off Positive Logic, the Negative Logic is optional by adding the big letter "L" to the Model Number. For example, HDR-L30028SC Model Number indicates Negative Logic, but HDR-30028SC indicates Positive Logic.  
2. Output voltage adjustment have two editions for compatibility, another edition is optional by adding the suffix "-T" to the Model Number. For example, HDR-L30028SC-T indicates Negative Logic and another edition output Trim function. For details, you can contact our engineers.

*Isolated DC-DC 1/2-Brick Dual-Output*

Input Voltage (Vdc)	Output Voltage (Vdc)	Output Trim (Vdc)	Max. Output Current (A)	Max. Output Power (W)	Efficiency (%)	Model Number
Nominal 24Vdc Input						
18 to 36	+5	4.5 to 5.5	15	75	86	HSR-0751ADB
	+3.3	3 to 3.6	15	$I_{O1} + I_{O2} \leq 15A$		
Nominal 48Vdc Input						
36 to 72	+3.3	3 to 3.6	15	50	78	HSR-075AEDC
	+1.8	1.6 to 2	15	$I_{O1} + I_{O2} \leq 15A$		
36 to 72	+3.3	3 to 3.6	6	20	85	HC-030ABDC
	+2.5	2.25 to 2.75	6	$I_{O1} + I_{O2} \leq 6A$		* Only Positive Logic
36 to 72	+3.3	3 to 3.6	15	50	80	HSR-075ABDC
	+2.5	2.25 to 2.75	15	$I_{O1} + I_{O2} \leq 15A$		



### Isolated DC-DC 1/2-Brick Dual-Output

Input Voltage (Vdc)	Output Voltage (Vdc)	Output Trim (Vdc)	Max. Output Current (A)	Max. Output Power (W)	Efficiency (%)	Model Number
Nominal 48Vdc Input(Continued)						
36 to 72	+5	4.5 to 5.5	15	75	80	HSR-0751EDC
	+1.8	1.6 to 2	15	$I_{O1}+I_{O2} \leq 15A$		
36 to 72	+5	4.5 to 5.5	6	30	86	HC-0301BDC
	+2.5	2.25 to 2.75	6	$I_{O1}+I_{O2} \leq 6A$		* Only Positive Logic
36 to 72	+5	4.5 to 5.5	15	75	81	HSR-0751BDC
	+2.5	2.25 to 2.75	15	$I_{O1}+I_{O2} \leq 15A$		
36 to 72	+5	4.5 to 5.5	6	30	86	HC-0301ADC
	+3.3	3 to 3.6	6	$I_{O1}+I_{O2} \leq 6A$		* Only Positive Logic
36 to 72	+5	4.5 to 5.5	10	50	80	HDR-0501ADC
	+3.3	3 to 3.6	10	$I_{O1}+I_{O2} \leq 10A$		
36 to 72	+5	4.5 to 5.5	15	75	82	HSR-0751ADC
	+3.3	3 to 3.6	15	$I_{O1}+I_{O2} \leq 15A$		
36 to 72	+5	4.5 to 5.5	15	75	88	HSR15-48D053V3
	+3.3	3 to 3.6	15	$I_{O1}+I_{O2} \leq 15A$		* Positive Logic
36 to 72	+5	4.5 to 5.5	15	75	88	HSR15-48D053V3-L
	+3.3	3 to 3.6	15	$I_{O1}+I_{O2} \leq 15A$		* Negative Logic
36 to 72	+8	7.2 to 8.8	5.6	45	81	HDR-0458ADC
	+3.3	3 to 3.6	10	$I_{O1}+I_{O2} \leq 15A$		
36 to 72	+12	10.8 to 13.2	6	78	85	HDR-0752DC
	-12	-10.8 to -13.2	-5	$I_{O1}+ I_{O2}  \leq 6.5A$		

Notes: The standard product features Remote On/Off Positive Logic, the Negative Logic is optional by adding the big letter "L" to the Model Number for HSR and HDR series. For example, HSR-L0751ADC indicates Negative Logic.

### Isolated DC-DC Full-Brick Single-Output

Input Voltage (Vdc)	Output Voltage (Vdc)	Output Trim (Vdc)	Max. Output Current (A)	Max. Output Power (W)	Efficiency (%)	Model Number
Nominal 24Vdc Input						
18 to 36	12	10.8 to 13.2	25	300	84	FDR-H3002SB
18 to 36	12	10.8 to 13.2	25	300	84	FDR-L3002SB
18 to 36	28	25.2 to 30.8	10.7	300	86	FDR-H30028SB
18 to 36	28	25.2 to 30.8	10.7	300	86	FDR-L30028SB
Nominal 48Vdc Input						
36 to 72	3.3	3 to 3.6	60	200	84	FSR-H200ASC
36 to 72	3.3	3 to 3.6	60	200	84	FSR-L200ASC
36 to 72	5	4.5 to 5.5	60	300	86	FSR-H3001SC
36 to 72	5	4.5 to 5.5	60	300	86	FSR-L3001SC
36 to 72	12	10.8 to 13.2	25	300	86	FDR-H3002SC
36 to 72	12	10.8 to 13.2	25	300	86	FDR-L3002SC
36 to 72	15	13.5 to 16.5	20	300	86	FDR-H3003SC
36 to 72	15	13.5 to 16.5	20	300	86	FDR-L3003SC
36 to 72	24	21.6 to 26.4	8.3	200	86	FDR-H2004SC
36 to 72	24	21.6 to 26.4	8.3	200	86	FDR-L2004SC
36 to 72	28	17 to 30.8	18	500	89	FDR-L50028SC/S
36 to 72	28	17 to 30.8	21.5	600	89	FDR-L60028SC
36 to 72	28	17 to 30.8	25	700	89	FDR-L70028SC/S



**HC Series**

2.4 × 2.28 × 0.5 inch  
61 × 57.9 × 12.7 mm



**HSR15**

2.4 × 2.28 × 0.41 inch  
61 × 57.9 × 10.5 mm



**FSR**

4.6 × 2.4 × 0.5 inch  
116.8 × 61 × 12.7 mm



**FDR 200 to 300W**

4.6 × 2.4 × 0.5 inch  
116.8 × 61 × 12.7 mm



# Isolated DC-DC Full-Brick Single-Output



**FDR 500 to 700W**

4.6 × 2.4 × 0.5 inch  
116.8 × 61 × 12.7 mm



**FVR**

4.6 × 2.4 × 0.5 inch  
116.8 × 61 × 12.7 mm



**DIL**

1.25 × 0.6 × 0.42 inch  
31.8 × 20.4 × 10.7 mm



**SF 10W, SF 15W**

2.0 × 1.0 × 0.43 inch  
50.8 × 25.4 × 11 mm

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Input Voltage (Vdc)	Output Voltage (Vdc)	Output Trim (Vdc)	Max. Output Current (A)	Max. Output Power (W)	Efficiency (%)	Model Number
Nominal 110Vdc Input						
66 to 160	12	10.8 to 13.2	12.5	150	85	FVR-H1502SD-T
66 to 160	12	10.8 to 13.2	12.5	150	85	FVR-L1502SD-T
66 to 160	15	13.5 to 16.5	10	150	86	FDR-H1503SD
66 to 160	15	13.5 to 16.5	10	150	86	FDR-L1503SD
66 to 160	15	13.5 to 16.5	10	150	86	FVR-H1503SD-T
66 to 160	15	13.5 to 16.5	10	150	86	FVR-L1503SD-T
66 to 160	24	21.6 to 26.4	6.3	150	87	FDR-H1504SD
66 to 160	24	21.6 to 26.4	6.3	150	87	FDR-L1504SD
66 to 160	24	19.2 to 26.4	6.3	150	87	FVR-H1504SD-T
66 to 160	24	19.2 to 26.4	6.3	150	87	FVR-L1504SD-T

Notes: The Model Number with "-H" features Remote On/Off Positive Logic, and with "-L" features On/Off Negative Logic.

## DC-DC Non-Brick Single-Output

Output Voltage (Vdc)	Output Trim (Vdc)	Max. Output Current (A)	Max. Output Power (W)	Input Voltage (Vdc)	Efficiency (%)	Model Number
2.5Vout						
2.5	N/A	3	10	18 to 36	83	DIL10S242V5
2.5	N/A	3	10	36 to 72	83	DIL10S482V5
2.5	2.3 to 2.7	10	25	36 to 72	84	SR48S2V5-25W
3.3Vout						
3.3	3 to 3.8	1.5	5	36 to 72	73	DIL5S483V3-T
3.3	N/A	3	10	09 to 18	78	SF12S3V3-10W
3.3	N/A	3	10	18 to 36	85	DIL10S243V3
3.3	N/A	3	10	18 to 36	79	SF24S3V3-10W
3.3	N/A	3	10	18 to 75	78	SFQ48S3V3-10W
3.3	N/A	3	10	36 to 72	85	DIL10S483V3
3.3	N/A	3	10	36 to 72	79	SF48S3V3-10W
3.3	3 to 3.6	3	10	36 to 72	78	SF48S3V3-10W/RT
3.3	3 to 3.6	5	16.5	18 to 36	79	SF24S3V3-20W
3.3	3 to 3.6	5	16.5	18 to 72	79	SFQ48S3V3-20W
3.3	3 to 3.6	5	16.5	36 to 72	80	SF48S3V3-20W
3.3	3 to 3.6	6	20	18 to 36	80	SF24S3V3-25W
3.3	3 to 3.6	6	20	36 to 72	80	SF48S3V3-20W/H
3.3	3 to 3.6	6	20	36 to 72	80	SF48S3V3-25W
3.3	3 to 3.6	7.5	25	36 to 72	81	AF48S3V3-25W
3.3	3 to 3.6	7.5	25	36 to 72	83	SF48S3V3-25W/H
3.3	3 to 3.6	10	33	18 to 38	86	SR24S3V3-33W
3.3	3 to 3.6	10	33	36 to 72	86	SR48S3V3-33W
5Vout						
5	N/A	0.6	3	18 to 36	70	DIL3S2405
5	N/A	0.6	3	36 to 72	71	DIL3S4805
5	N/A	1	5	09 to 18	75	DIL5S1205
5	N/A	1	5	18 to 36	75	DIL5S2405
5	N/A	1	5	36 to 72	75	DIL5S4805



## DC-DC Non-Brick Single-Output

Output Voltage (Vdc)	Output Trim (Vdc)	Max. Output Current (A)	Max. Output Power (W)	Input Voltage (Vdc)	Efficiency (%)	Model Number
<b>5Vout(Continued)</b>						
5	N/A	2	10	09 to 18	80	SF12S5-10W
5	N/A	2	10	18 to 36	87	DIL10S2405
5	N/A	2	10	18 to 36	80	SF24S5-10W
5	N/A	2	10	18 to 75	90	SFQ48S5-10W
5	N/A	2	10	36 to 130	80	FPQ72S5-10W
5	N/A	2	10	36 to 72	87	DIL10S4805
5	N/A	2	10	36 to 72	90	SF48S5-10W
5	4.5 to 5.5	2	10	36 to 72	80	SF48S5-10W/RT
5	N/A	2	10	70 to 140	79	SF110S5-10W
5	N/A	3	15	09 to 18	83	SF12S5-15W
5	N/A	3	15	18 to 36	81	SF24S5-15W
5	N/A	3	15	36 to 72	82	SF48S5-15W
5	4.5 to 5.5	3	15	36 to 72	82	SF48S5-15W/RT
5	4.5 to 5.5	4	20	09 to 18	82	SF12S5-20W
5	4.5 to 5.5	4	20	18 to 36	80	SF24S5-20W
5	4.5 to 5.5	4	20	18 to 75	83	SFQ48S5-20W
5	4.5 to 5.5	4	20	20 to 60	82	SFW48S5-20W
5	4.5 to 5.5	4	20	36 to 72	82	SF48S5-20W
5	4.5 to 5.5	4	20	70 to 140	82	SF110S5-20W
5	4.5 to 5.5	5	25	18 to 36	82	SF24S5-25W
5	4.5 to 5.5	5	25	20 to 60	81	SFW48S5-25W
5	4.5 to 5.5	5	25	36 to 72	81	SF48S5-25W
5	4.5 to 5.5	6	30	18 to 36	82	SF24S5-30W
5	4.5 to 5.5	6	30	36 to 72	87	SFN48S5-30W
5	4.5 to 5.5	8	40	18 to 36	87	SR24S5-40W
5	4.5 to 5.5	8	40	36 to 72	89	SR48S5-40W
5	4.5 to 5.5	20	100	36 to 72	83	AC-L1001SC
5	4.5 to 5.5	30	150	36 to 72	83	TAB-L1501SC
<b>6 to 10 Vout</b>						
6	5.4 to 6.64	16	25	18 to 36	82	SF24S6-25W
8	7.2 to 8.83	13	25	36 to 72	82	SF48S8-25W
8.4	N/A	1.2	10	18 to 36	82	SF24S8V4-10W
8.4	N/A	1.79	15	18 to 36	83	SF24S8V4-15W
9	N/A	1.1	10	18 to 36	82	SF24S9-10W
9	8.1 to 9.91	67	15	18 to 36	83	SF24S9-15W/T
9	8.1 to 9.94	45	40	36 to 72	87	SF48S9-40W
10	9 to 11	2.5	25	36 to 72	82	SF48S10-25W
<b>12Vout</b>						
12	N/A	0.25	3	18 to 36	75	DIL3S2412
12	N/A	0.25	3	36 to 72	75	DIL3S4812
12	N/A	0.42	5	09 to 18	78	DIL5S1212
12	N/A	0.42	5	18 to 36	75	DIL5S2412
12	N/A	0.42	5	36 to 72	78	DIL5S4812
12	N/A	0.83	10	09 to 18	82	SF12S12-10W
12	N/A	0.83	10	18 to 36	87	DIL10S2412
12	N/A	0.83	10	10 to 36	82	SF24S12-10W
12	N/A	0.83	10	18 to 75	82	SFQ48S12-10W
12	N/A	0.83	10	36 to 72	87	DIL10S4812
12	N/A	0.83	10	36 to 72	82	SF48S12-10W
12	N/A	0.83	10	48 to 96	83	SF72S12-10W
12	N/A	0.83	10	70 to 140	83	SF110S12-10W



**SFQ 10W  
SFC 20W**

2.0 × 1.0 × 0.5 inch  
50.8 × 25.4 × 12.7 mm



**SF, SFQ 20W  
SFN 30W**

2.0 × 1.6 × 0.5 inch  
50.8 × 40.6 × 12.7 mm



**SF 25W to 40W  
SR 33 to 40W  
AF 25W, SFW 25W**

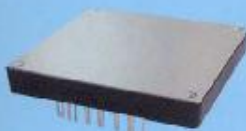
2.0 × 2.0 × 0.5 inch  
50.8 × 50.8 × 12.7 mm





**TAB & HAB 150W**

3.39 × 2.83 × 0.5 inch  
86 × 72 × 12.7 mm



**HAB 300W**

3.39 × 3.27 × 0.5 inch  
86 × 83 × 12.7 mm

Output Voltage (Vdc)	Output Trim (Vdc)	Max. Output Current (A)	Max. Output Power (W)	Input Voltage (Vdc)	Efficiency (%)	Model Number
<b>12Vout(Continued)</b>						
12	N/A	1.25	15	18 to 36	82	SF24S12-15W
12	N/A	1.25	15	36 to 72	85	SF48S12-15W
12	10.8 to 13.2	1.67	20	18 to 36	82	SF24S12-20W
12	10.8 to 13.2	1.67	20	36 to 72	84	SF48S12-20W
12	10.8 to 13.2	2.1	25	09 to 18	82	SF12S12-25W
12	10.8 to 13.2	2.1	25	09 to 36	83	SFQ24S12-25W
12	10.8 to 13.2	2.1	25	18 to 36	82	SF24S12-25W
12	10.8 to 13.2	2.1	25	36 to 72	82	SF48S12-25W
12	10.8 to 13.2	8.4	100	36 to 72	83	AC-L1002SC
12	10.8 to 13.2	12.5	150	200 to 400	86	HAB-L1502SE
<b>15Vout</b>						
15	N/A	0.33	5	18 to 36	78	D1L5S2415
15	N/A	0.67	10	70 to 140	82	SF110S15-10W
15	13.5 to 18	0.67	10	70 to 140	81	SF110S15-10W/RT
15	13.5 to 16.5	1.33	20	18 to 36	85	SF24S15-20W
15	13.5 to 16.5	1.33	20	36 to 72	84	SF48S15-20W
15	13.5 to 16.5	1.67	25	18 to 36	83	SF24S15-25W
15	13.5 to 16.5	1.67	25	20 to 60	84	SFW48S15-25W
15	13.5 to 16.5	2.67	40	36 to 72	87	SF48S15-40W
15	13.5 to 16.5	10	150	200 to 400	86	HAB-L1503SE
<b>18 to 20Vout</b>						
18	N/A	0.56	10	18 to 36	83	SF24S18-10W
18	16.2 to 19.8	1.11	20	36 to 72	85	SF48S18-20W
20	12 to 26	1	20	18 to 36	82	SF24S20-20W/TW
20	N/A	1	20	36 to 72	83	SF48S20-20W
<b>24Vout</b>						
24	N/A	0.42	10	18 to 36	82	SF24S24-10W
24	N/A	0.42	10	36 to 72	84	SF48S24-10W
24	N/A	0.42	10	70 to 140	82	SF110S24-10W
24	N/A	0.62	15	18 to 36	85	SF24S24-15W
24	N/A	0.62	15	36 to 72	85	SF48S24-15W
24	21.6 to 26.4	0.84	20	18 to 36	84	SF24S24-20W
24	21.6 to 26.4	1.05	25	18 to 36	86	SF24S24-25W
24	21.6 to 26.4	6.3	150	200 to 400	86	HAB-L1504SE
24	21.6 to 26.4	12.5	300	200 to 400	88	HAB-L3004SE
<b>28 to 96Vout</b>						
28	25.2 to 30.8	5.4	150	200 to 400	87	HAB-L15028SE
28	25.2 to 30.8	10.8	300	200 to 400	88	HAB-L30028SE
48	N/A	0.2	10	4.5 to 5.5	78	SF05S48-10W
48	N/A	0.21	10	36 to 72	87	SF48S48-10W
48	43.2 to 52.8	6.3	300	200 to 400	88	HAB-L3005SE
96	N/A	0.36	30	36 to 72	88	SF48S96-30W

## DC-DC Non-Brick Dual-Output

Unsigned output voltages are isolated and can be used as either + or - polarities

Input Voltage (Vdc)	Output Voltage (Vdc)	Output Trim (Vdc)	Max. Output Current (A)	Max. Output Power (W)	Efficiency (%)	Model Number
36 to 72	+3.3 +5	3 to 3.6 4.5 to 5.5	6 1	25	80	SF48D3V305-25W
18 to 36	+5 -5	N/A N/A	0.3 -0.3	3	74	DIL3D2405
36 to 72	+5 -5	N/A N/A	0.3 -0.3	3	74	DIL3D4805
09 to 18	+5 -5	N/A N/A	1 -1	10	81	SF12D5-10W
18 to 36	+5 -5	N/A N/A	1 -1	10	80	SF24D5-10W
36 to 72	+5 -5	N/A N/A	1 -1	10	81	SF48D5-10W
70 to 140	+5 -5	N/A N/A	1 -1	10	80	SF110D5-10W
36 to 72	+5 +3.4	N/A N/A	1.7 1	10	81	SF48D053V3-10W/RN
18 to 36	+5 -5	4.5 to 5.5 -4.5 to -5.5	2 -2	20	84	SF24D5-20W
36 to 72	+5 -5	4.5 to 5.5 -4.5 to -5.5	2 -2	20	84	SF48D5-20W
36 to 72	+5 -5	4.5 to 5.5 -4.5 to -5.5	2.5 -2.5	25	80	SF48D5-25W
36 to 72	+5 -5	4.5 to 5.5 -4.5 to -5.0	4 -1	25	82	SF48D5-25W/U
36 to 72	+5 +3.3	4.5 to 5.5 3 to 3.6	5 6	25	80	SF48D053V3-25W
36 to 72	5 12	4.5 to 5.5 10.8 to 13.2	20 2	124	83	DR48S05S12
36 to 72	5 5	4.5 to 5.5 4.5 to 5.5	24 5	145	80	DR48S05S05F
36 to 72	+5.1 -5.1	4.5 to 5.5 N/A	5 -1	30	82	SF48D5-30W
36 to 72	+8 -8	7.2 to 8.8 -7.2 to -8.8	1.25 -1.25	20	84	SF48D8-20W
36 to 72	+9 -9	8.1 to 9.9 -8.1 to -9.9	2.2 -2.2	40	87	SF48D9-40W
4.5 to 9	+12 -12	N/A N/A	0.125 -0.125	3	71	DIL3D0512
18 to 36	+12 -12	N/A N/A	0.21 -0.21	5	77	DIL5D2412
36 to 72	+12 -12	N/A N/A	0.21 -0.21	5	78	DIL5D4812



**DR48S**

5.48 × 3.4 × 0.93 inch  
139.2 × 86.4 × 23.5 mm

The Height is no heat-Sink





**WR 6W to 12W**

2.4 × 2.0 × 0.43 inch  
61 × 50.8 × 11 mm

### DC-DC Non-Brick Dual-Output

Unsigned output voltages are isolated and can be used as either + or - polarities

Input Voltage (Vdc)	Output Voltage (Vdc)	Output Trim (Vdc)	Max. Output Current (A)	Max. Output Power (W)	Efficiency (%)	Model Number
09 to 18	+12	N/A	0.42	10	83	SF12D12-10W
	-12	N/A	-0.42			
36 to 72	+12	N/A	0.42	10	84	SF48D12-10W
	-12	N/A	-0.42			
18 to 36	+12	10.8 to 13.2	0.83	20	84	SF24D12-20W
	-12	-10.8 to -13.2	-0.83			
36 to 72	+12	10.8 to 13.2	0.83	20	85	SF48D12-20W
	-12	-10.8 to -13.2	-0.83			
18 to 75	+12	10.8 to 13.2	0.84	20	84	SFQ48D12-20W
	-12	-10.8 to -13.2	-0.84			
09 to 18	+12	10.8 to 13.2	1.05	25	84	SF12D12-25W
	-12	-10.8 to -13.2	-1.05			
18 to 36	+12	10.8 to 13.2	1.05	25	84	SF24D12-25W
	-12	-10.8 to -13.2	-1.05			
36 to 72	+12	10.8 to 13.2	1.05	25	82	SF48D12-25W
	-12	-10.8 to -13.2	-1.05			
09 to 18	+12	10.8 to 13.2	1.5	25	80	SF12D1205-25W
	+5	4.5 to 5.5	1			
18 to 36	+15	N/A	0.1	3	75	DIL3D2415
	-15	N/A	-0.1			
36 to 72	+15	N/A	0.1	3	79	DIL3D4815
	-15	N/A	-0.1			
4.5 to 9	+15	N/A	0.1	3	71	DIL3D0515
	-15	N/A	-0.1			
09 to 18	+15	N/A	0.33	10	84	SF12D15-10W
	-15	N/A	-0.33			
18 to 36	+15	13.5 to 16.5	0.67	20	84	SF24D15-20W
	-15	-13.5 to -16.5	-0.67			
36 to 72	+15	13.5 to 16.5	0.67	20	86	SF48D15-20W
	-15	-13.5 to -16.5	-0.67			
09 to 18	+15	13.5 to 16.5	0.83	25	81	SF12D15-25W
	-15	-13.5 to -16.5	-0.83			
18 to 36	+15	13.5 to 16.5	0.85	25	83	SF24D15-25W
	-15	-13.5 to -16.5	-0.85			
36 to 72	+15	13.5 to 16.5	0.85	25	84	SF48D15-25W
	-15	-13.5 to -16.5	-0.85			
36 to 72	+15	13.5 to 16.5	1	30	84	SF48D15-30W
	-15	-13.5 to -16.5	-1			

### DC-DC Non-Brick Triple-Output

Unsigned output voltages are isolated and can be used as either + or - polarities

Input Voltage (Vdc)	Output Voltage (Vdc)	Output Trim (Vdc)	Max. Output Current (A)	Max. Output Power (W)	Efficiency (%)	Model Number
4.5 to 9	5	N/A	0.4	6	80	WR6D12S5
	-12	N/A	0.15			
	-12	N/A	-0.15			

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