

# TDK-Lambda Power Supplies



## DIN Rail

**Features:** DLP Series: • Low cost • 3 year warranty • Convection cooled DLPPU Series: • ORing diodes included • Alarm signals • LED indicators • DIN rail mounting DPP Series: • Low cost • Universal Input • Compact size • -10°C - 71°C operation • Convection cooled DPP480 Series: • Low cost • Wide range AC input • Active PFC • Parallel function switch • -25°C - 71°C operation • Convection cooled DSP Series: • Low profile for building automation • Wide range AC input • -25°C - 71°C operation • Convection cooled • DIN rail or chassis mount **Note:** For safety and EMI certifications, please see series data sheets.

Fig. 1 – DLP Series

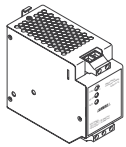


Fig. 2 – DLPPU Series

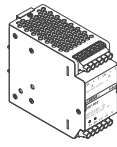


Fig. 3 – DPP Series

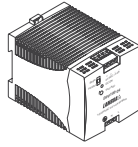


Fig. 4 – DPP480 Series

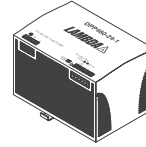


Fig. 5 – DSP Series

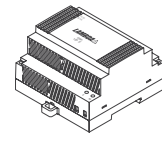


Fig.	Series	Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1 10	TDK-Lambda Part No.
1	DLP	24	3.1	75	285-1210-ND	62.00 61.00	DLP75241/E
		24	4.1	98.4	285-1206-ND	84.00 81.00	DLP100241/E
		24	5	120	285-1207-ND	90.00 87.00	DLP120241/E
		24	7.5	180	285-1208-ND	122.00 120.00	DLP180241/E
2	DLPPU	21 - 28VDC	20	—	285-1211-ND	91.00 86.00	DLPPU/E
		5	5	25	285-1214-ND	48.00 46.00	DPP25-5
		12	2.5	30	285-1215-ND	48.00 46.00	DPP30-12
		15	3.4	50	285-1218-ND	54.00 51.00	DPP50-15
3	DPP	24	0.63	15	285-1213-ND	40.00 38.00	DPP15-24
		24	1.3	30	285-1216-ND	48.00 46.00	DPP30-24
		24	2.1	50	285-1219-ND	54.00 51.00	DPP50-24
		24	4.2	100	285-1212-ND	77.00 72.00	DPP100-24
		48	1.05	50	285-1220-ND	54.00 51.00	DPP50-48
		24	20	480	285-1217-ND	200.00 180.00	DPP480241

Fig.	Series	Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1 10	TDK-Lambda Part No.
5	DSP	5	1.5	7.5	285-1228-ND	24.20 20.50	DSP10-5
		5	3	15	285-1232-ND	39.00 32.00	DSP30-5
		5	7	35	285-1236-ND	47.00 40.00	DSP60-5
		12	0.83	10	285-1225-ND	24.20 20.50	DSP10-12
		12	2.1	25.2	285-1229-ND	39.00 32.00	DSP30-12
		12	4.5	54	285-1233-ND	47.00 40.00	DSP60-12
		12	6	72	285-1221-ND	61.43 52.00	DSP100-12
		15	0.67	10.1	285-1226-ND	24.20 20.50	DSP10-15
		15	2	30	285-1230-ND	39.00 32.00	DSP30-15
		15	4	60	285-1234-ND	47.00 40.00	DSP60-15
		15	5	75	285-1222-ND	61.43 52.00	DSP100-15
		24	0.42	10.1	285-1227-ND	24.20 20.50	DSP10-24
		24	1.3	31.2	285-1231-ND	39.00 32.00	DSP30-24
		24	2.5	60	285-1235-ND	47.00 40.00	DSP60-24
		24	3.8	91.2	285-1224-ND	61.43 52.00	DSP100-24/C2
		24	4.2	100.8	285-1223-ND	61.43 52.00	DSP100-24

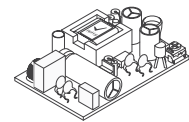
**Note:** DIN rail adapters also available for JWS, HK and HWS series power supplies listed under enclosed case.

## Board Mount — KPSA Series

**Features:**

• Low Profile • Smaller Footprint • PC Board mountable • Low cost • UL Class II Approved • Wide input range • No external components needed • Minimized pcb space • Global use with no manual intervention • Easy to use • No ground connection needed.

**Note:** For safety and EMI certifications, please see series data sheets.

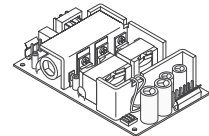


Series	Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1 10	TDK-Lambda Part No.
KPSA	5	1	5	285-1773-ND	19.13 16.88	KPSA55
		2	10	285-1769-ND	24.48 21.60	KPSA105
		3	15	285-1771-ND	29.46 26.00	KPSA155
	12	0.42	5	285-1754-ND	19.13 16.88	KPSA512
		0.84	10.1	285-1750-ND	24.48 21.60	KPSA1012
		1.25	15	285-1752-ND	29.46 26.00	KPSA1512

Series	Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1 10	TDK-Lambda Part No.
KPSA	15	0.33	5	285-1772-ND	19.13 16.88	KPSA515
		0.67	10.1	285-1768-ND	24.48 21.60	KPSA1015
		1	15	285-1770-ND	29.46 26.00	KPSA1515
	24	0.23	5.5	285-1755-ND	19.13 16.88	KPSA524
		0.42	10.1	285-1751-ND	24.48 21.60	KPSA1024
		0.63	15.1	285-1753-ND	29.46 26.00	KPSA1524

## AC/DC Open Case

**Features:** HWS30-1500/ME Series: • 5 year warranty • Medical approvals • Universal input (85 - 265VAC) • High efficiency HWS50-1500/HD Series: • 5 year warranty • -10°C - 71°C operation (-40°C start up) • Universal input (85 - 265VAC) • Conformally coated pcbs KPS Series: • Small size and lightweight • PC board mountable • Low cost • Universal input voltage HITW Series: • 26mm height • 3 year warranty • Peak load capable • Light weight • Output 1 isolated from outputs 2 and 3 SC40/60 Series: • Low cost • Single and multiple outputs • Wide range AC input • Low profile SCS120PW Series: • Low profile • Convection cooled • Wide range AC input with PFC ZP40/60 Series: • Single and multiple outputs • Wide range AC input • Low profile, industry standard footprint ZPSA20 Series: • Single output • Wide range AC input • Low profile, industry standard footprint ZWQ Series: • Universal input (85 - 265VAC) • Power factor corrected • Floating adjustable fourth output • Low profile <1U high ZWS Series: • Universal input (85 - 265VAC) • Power factor corrected (>50W) • Input transient protected • 2 year warranty • High quality design • Peak power capability ZWS-AF Series: • Universal input (85 - 265VAC) • Power factor corrected • Input transient protected • 2 year warranty • High quality design • Peak power capability ZWS-PAF Series: • Universal input (85 - 265VAC) • Power factor corrected • 200% peak power capability • 2 year warranty **Note:** For safety and EMI certifications, please see series data sheets.



Series	Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1 10	TDK-Lambda Part No.
<b>Single Output</b>						
HWS30-1500/ME	5	6	30	285-1341-ND	54.00 52.00	HWS30-5/ME
	5	10	50	285-1358-ND	122.00 118.00	HWS30-5/ME
	5	20	100	285-1281-ND	168.00 163.00	HWS100-5/ME
	5	30	150	285-1311-ND	221.00 215.00	HWS150-5/ME
	12	2.5	30	285-1332-ND	54.00 52.00	HWS30-12/ME
	12	4.3	51.6	285-1344-ND	122.00 118.00	HWS30-12/ME
	12	8.5	102	285-1267-ND	168.00 163.00	HWS100-12/ME
	12	13	156	285-1297-ND	221.00 215.00	HWS150-12/ME
	15	2	30	285-1334-ND	54.00 52.00	HWS30-15/ME
	15	3.5	52.5	285-1347-ND	122.00 118.00	HWS30-15/ME
	15	7	105	285-1270-ND	168.00 163.00	HWS100-15/ME
	15	10	150	285-1300-ND	221.00 215.00	HWS150-15/ME
	24	1.3	31.2	285-1336-ND	54.00 52.00	HWS30-24/ME
	24	2.2	52.8	285-1350-ND	122.00 118.00	HWS30-24/ME
	24	4.5	108	285-1273-ND	168.00 163.00	HWS100-24/ME
	HWS50-1500/HD	24	6.5	156	285-1303-ND	221.00 215.00
48		0.65	31.2	285-1339-ND	54.00 52.00	HWS30-48/ME
48		1.1	52.8	285-1355-ND	122.00 118.00	HWS30-48/ME
48		2.1	100.8	285-1278-ND	168.00 163.00	HWS100-48/ME
48		3.3	158.4	285-1308-ND	221.00 215.00	HWS150-48/ME
3.3		10	33	285-1352-ND	151.00 147.00	HWS50-3/HD
3.3		20	66	285-1275-ND	211.00 206.00	HWS100-3/HD
3.3		30	99	285-1305-ND	273.00 264.01	HWS150-3/HD
5		10	50	285-1357-ND	151.00 147.00	HWS50-5/HD
5		20	100	285-1280-ND	211.00 206.00	HWS100-5/HD
5		30	150	285-1310-ND	273.00 264.01	HWS150-5/HD
12		4.3	51.6	285-1343-ND	151.00 147.00	HWS50-12/HD
12	8.5	102	285-1266-ND	211.00 206.00	HWS100-12/HD	

Series	Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1 10	TDK-Lambda Part No.
HWS50-1500/HD	12	13	156	285-1296-ND	273.00 264.01	HWS150-12/HD
	12	125	1500	285-1283-ND	1550.00 1475.01	HWS150012/HD
	15	3.5	52.5	285-1346-ND	151.00 147.00	HWS50-15/HD
	15	7	105	285-1269-ND	211.00 206.00	HWS100-15/HD
	15	10	150	285-1299-ND	273.00 264.01	HWS150-15/HD
	24	2.2	52.8	285-1349-ND	151.00 147.00	HWS50-24/HD
	24	4.5	108	285-1272-ND	211.00 206.00	HWS100-24/HD
	24	6.5	156	285-1302-ND	273.00 264.01	HWS150-24/HD
	48	1.1	52.8	285-1354-ND	151.00 147.00	HWS50-48/HD
	48	2.1	100.8	285-1277-ND	211.00 206.00	HWS100-48/HD
48	3.3	158.4	285-1307-ND	273.00 264.01	HWS150-48/HD	
KPS	3.3	1.25	4.1	285-1420-ND	18.00 17.00	KPS53R3
	3.3	2.50	8.3	285-1410-ND	23.00 21.50	KPS103R3
	3.3	3	9.9	285-1415-ND	27.50 26.00	KPS153R3
	5	1	5	285-1421-ND	18.00 17.00	KPS55
	5	2	10	285-1411-ND	23.00 21.50	KPS105
	5	3	15	285-1416-ND	27.50 26.00	KPS155
	12	0.42	5	285-1417-ND	18.00 17.00	KPS512
	12	0.84	10.1	285-1407-ND	23.00 21.50	KPS1012
	12	1.25	15	285-1412-ND	27.50 26.00	KPS1512
	15	0.33	5	285-1418-ND	18.00 17.00	KPS515
SC40/60	3.3	8	40	285-1583-ND	48.00 46.00	SCS403
	3.3	12	60	285-1590-ND	66.00 59.00	SCS603
	15	0.67	10.1	285-1408-ND	23.00 21.50	KPS1015
	15	1	15	285-1413-ND	27.50 26.00	KPS1515
	24	0.23	5.5	285-1419-ND	18.00 17.00	KPS524
	24	0.42	10.1	285-1409-ND	23.00 21.50	KPS1024

† 50W with 30CFM forced air cooling, derate linearly to 35W from 50°C - 70°C

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More Product Available Online: [www.digikey.com](http://www.digikey.com)



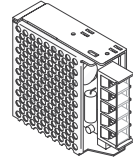


**Enclosed Case**

**Features:**

**HK-A Series:** • 3 year warranty • Small size • 85 – 132VAC input, 47 – 440Hz • ±10% output adjustment **HWS/HWS300-1500 Series:** • 5 year warranty • Universal input (85 – 265VAC) • High efficiency **HWS50-1500/HD Series:** • 5 year warranty • -10°C – 71°C operation (-40°C start up) • Universal input (85 – 265VAC) • Conformally coated pcbs **HWS30-1500/ME Series:** • 5 year warranty • Medical approvals • Universal input (85 – 265VAC) • High efficiency **JWS/JWT Series:** • 5 year warranty • Power factor corrected • Universal input (85 – 265VAC) **JWS508 Series:** • 5 year warranty • Power factor corrected • Universal input (85 – 265VAC) **LZSA Series:** • 5 year warranty • -40°C – 71°C operation • MIL-STD-810E vibration/shock • Input transient protected **SWS Series:** • Low cost • Universal input (85 – 265VAC) **SWS300/600 Series:** • Low cost • Active power factor correction • Universal input (85 – 265VAC) **SWS600L Series:** • Low cost • Low profile • Active power factor correction • Universal input (85 – 265VAC) • Low acoustical noise • 3 year warranty

**Note:** For safety and EMI certifications, please see series data sheets.



Series	Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1 10	TDK-Lambda Part No.	
<b>Single Output</b>							
HK-A	5	2	10	285-1248-ND	27.00	26.00	
	5	3	15	285-1256-ND	33.00	32.00	
	5	5	25	285-1260-ND	39.00	38.00	
	5	10	50	285-1264-ND	56.50	55.00	
	5	20	100	285-1244-ND	94.00	92.00	
	5	30	150	285-1252-ND	128.00	125.00	
	12	0.9	10.8	285-1245-ND	27.00	26.00	
	12	1.3	15.6	285-1253-ND	33.00	32.00	
	12	2.1	25.2	285-1257-ND	39.00	38.00	
	12	4.2	50.4	285-1261-ND	56.50	55.00	
	12	8.5	102	285-1241-ND	94.00	92.00	
	12	12.5	150	285-1249-ND	128.00	125.00	
	15	0.7	10.5	285-1246-ND	27.00	26.00	
	15	1	15	285-1254-ND	33.00	32.00	
	15	1.7	25.5	285-1258-ND	39.00	38.00	
	15	3.4	51	285-1262-ND	56.50	55.00	
	15	7	105	285-1242-ND	94.00	92.00	
	15	10	150	285-1250-ND	128.00	125.00	
	24	0.5	12	285-1247-ND	27.00	26.00	
	24	0.7	16.8	285-1255-ND	33.00	32.00	
	24	1.1	26.4	285-1259-ND	39.00	38.00	
	24	2.2	52.8	285-1263-ND	56.50	55.00	
	24	4.5	108	285-1243-ND	94.00	92.00	
	24	6.5	156	285-1251-ND	128.00	125.00	
HWS	3.3	3	9.9	285-1315-ND	42.00	40.00	
	3.3	6	19.8	285-1337-ND	54.00	52.00	
	3.3	10	33	285-1351-ND	115.00	111.00	
	3.3	20	66	285-1274-ND	166.00	161.00	
	3.3	30	99	285-1304-ND	216.00	208.00	
	5	3	15	285-1317-ND	42.00	40.00	
	5	6	30	285-1340-ND	54.00	52.00	
	5	10	50	285-1356-ND	115.00	111.00	
	5	20	100	285-1279-ND	166.00	161.00	
	5	30	150	285-1309-ND	216.00	208.00	
	12	1.3	15.6	285-1312-ND	42.00	40.00	
	12	2.5	30	285-1331-ND	54.00	52.00	
	12	4.3	51.6	285-1342-ND	115.00	111.00	
	12	8.5	102	285-1265-ND	166.00	161.00	
	12	13	156	285-1295-ND	216.00	208.00	
	15	1	15	285-1313-ND	42.00	40.00	
	15	2	30	285-1333-ND	54.00	52.00	
	15	3.5	52.5	285-1345-ND	115.00	111.00	
	15	7	105	285-1268-ND	166.00	161.00	
	15	10	150	285-1298-ND	216.00	208.00	
	24	0.65	15.6	285-1314-ND	42.00	40.00	
	24	1.3	31.2	285-1335-ND	54.00	52.00	
	24	2.2	52.8	285-1348-ND	115.00	111.00	
	24	4.5	108	285-1271-ND	166.00	161.00	
24	6.5	156	285-1301-ND	216.00	208.00		
48	0.33	15.84	285-1316-ND	42.00	40.00		
48	0.65	31.2	285-1338-ND	54.00	52.00		
48	1.1	52.8	285-1353-ND	115.00	111.00		
48	2.1	100.8	285-1276-ND	166.00	161.00		
48	3.3	158.4	285-1306-ND	216.00	208.00		
HWS300-1500	3.3	60	198	285-1325-ND	365.00	328.01	
	3.3	120	396	285-1366-ND	555.00	540.00	
	5	60	300	285-1329-ND	365.00	328.01	
	5	120	600	285-1370-ND	555.00	540.00	
	12	27	324	285-1318-ND	365.00	328.01	
	12	53	636	285-1359-ND	555.00	540.00	
	12	125	1,500	285-1282-ND	1,200.00	1,125.01	
	15	22	330	285-1320-ND	365.00	328.01	
	15	43	645	285-1361-ND	555.00	540.00	
	15	100	1,500	285-1284-ND	1,200.00	1,125.01	
	24	14	336	285-1322-ND	365.00	328.01	
	24	27	648	285-1363-ND	555.00	540.00	
	24	65/70‡	1,560/1,680	285-1286-ND	1,200.00	1,125.01	
	36	42/46.5‡	1,512/1,674	285-1289-ND	1,200.00	1,125.01	
	48	7	336	285-1327-ND	365.00	328.01	
	48	13	624	285-1368-ND	555.00	540.00	
	48	32	1,536	285-1292-ND	1,200.00	1,125.01	
	HWS50-1500/HD	3.3	60	198	285-1326-ND	484.00	435.00
		3.3	120	396	285-1367-ND	605.00	586.00
		5	60	300	285-1330-ND	484.00	435.00
		5	120	600	285-1371-ND	620.00	602.01
		12	27	324	285-1319-ND	484.00	435.00
		12	53	636	285-1360-ND	620.00	602.01
		15	22	330	285-1321-ND	484.00	435.00
15		43	645	285-1362-ND	620.00	602.01	
15		100	1,500	285-1285-ND	1,550.00	1,475.01	
24		14	336	285-1323-ND	484.00	435.00	
24		27	648	285-1364-ND	620.00	602.01	
24		65/70‡	1,560/1,680‡	285-1287-ND	1,550.00	1,475.01	
36		42/46.5‡	1,512/1,674‡	285-1290-ND	1,550.00	1,475.01	
48		7	336	285-1328-ND	484.00	435.00	
48		13	624	285-1369-ND	620.00	602.01	
48		32	1,536	285-1293-ND	1,550.00	1,475.01	

Series	Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1 10	TDK-Lambda Part No.
HWS50-1500/ME	24	14	336	285-1324-ND	410.00	368.00
	24	27	648	285-1365-ND	605.00	586.00
	24	65	1560	285-1288-ND	1300.00	1240.00
	36	42	1512	285-1291-ND	1300.00	1240.00
	48	32	1536	285-1294-ND	1300.00	1240.00
	3.3	10	33	285-1047-ND	129.00	124.70
	3.3	20	66	285-1384-ND	204.25	198.88
	5	10	50	285-1048-ND	129.00	124.70
	5	15	75	285-1053-ND	173.08	163.41
	5	20	100	285-1057-ND	204.25	198.88
	5	30	150	285-1061-ND	265.53	256.93
	JWS	5	60	300	285-1101-ND	410.65
5		120	600	285-1105-ND	627.81	596.63
12		4.3	51.6	285-1049-ND	129.00	124.70
12		6.3	75.6	285-1054-ND	173.08	163.41
12		8.5	102	285-1058-ND	204.25	198.88
12		13	156	285-1062-ND	265.53	256.93
12		27	324	285-1102-ND	410.65	370.88
12		53	636	285-1106-ND	627.81	596.63
15		3.5	52.5	285-1393-ND	129.00	124.70
15		5	75	285-1402-ND	173.08	163.41
15		7	105	285-1382-ND	204.25	198.88
15		10	150	285-1385-ND	265.53	256.93
15		22	330	285-1387-ND	410.65	370.88
15		43	645	285-1396-ND	627.81	596.63
24		2.2	52.8	285-1050-ND	129.00	124.70
24		3.2	76.8	285-1055-ND	173.08	163.41
24		4.5	108	285-1059-ND	204.25	198.88
24		6.5	156	285-1063-ND	265.53	256.93
24		14	336	285-1103-ND	410.65	370.88
24		27	648	285-1107-ND	627.81	596.63
28		2	56	285-1394-ND	129.00	124.70
28		3.6	100.8	285-1383-ND	204.25	198.88
28		12	336	285-1390-ND	410.65	370.88
28		23	644	285-1398-ND	627.81	596.63
48	1.1	52.8	285-1051-ND	129.00	124.70	
48	1.6	76.8	285-1056-ND	173.08	163.41	
48	2.1	100.8	285-1060-ND	204.25	198.88	
48	3.3	158.4	285-1064-ND	265.53	256.93	
48	6.5	312	285-1104-ND	410.65	370.88	
48	13	624	285-1108-ND	627.81	596.63	
JWS508	24	3	72	285-1401-ND	263.68	228.98
	24	10	240	285-1386-ND	528.56	426.78
	24	14	336	285-1389-ND	410.65	370.88
LZSA	24	21	504	285-1456-ND	997.00	890.01
	24	42	1008	285-1455-ND	1300.00	1175.01
SWS	3.3	10	33	285-1626-ND	37.00	36.00
	5	10	50	285-1627-ND	37.00	36.00
	5	15	75	285-1638-ND	42.50	42.00
	5	20	100	285-1611-ND	54.00	53.00
	5	30	150	285-1615-ND	65.00	63.00
	12	4.3	51.6	285-1623-ND	37.00	36.00
	12	6.3	75.6	285-1635-ND	42.50	42.00
	12	8.5	102	285-1608-ND	54.00	53.00
	12	12.5	150	285-1612-ND	65.00	63.00
	15	3.5	52.5	285-1624-ND	37.00	36.00
	15	5	75	285-1636-ND	42.50	42.00
	15	6.7	100.5	285-1609-ND	54.00	53.00
15	10	150	285-1613-ND	65.00	63.00	
24	2.1	50.4	285-1625-ND	37.00	36.00	
24	3.2	76.8	285-1637-ND	42.50	42.00	
24	4.3	103.2	285-1610-ND	54.00	53.00	
24	6.3	151.2	285-1614-ND	65.00	63.00	
SWS300/600	3.3	55	181.5	285-1619-ND	125.00	121.00
	3.3	100‡	330	285-1631-ND	224.00	217.00
	5	55	275	285-1622-ND	125.00	121.00
	5	100‡	500	285-1634-ND	224.00	217.00
	12	26	312	285-1616-ND	125.00	121.0

**Enclosed Case (Cont.)**

Series	Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1 10	TDK-Lambda Part No.
JWT	5	13	100	285-1403-ND	209.00 204.00	JWT100-522/A
	12	5.5				
	-12	1				
	5	13	100	285-1404-ND	209.00 204.00	JWT100-5FF/A
	15	4.5				
	-15	1				
DIN Rail Kit for JWS50 and JWS75				285-1440-ND	12.50 11.30	LDIN50/75
DIN Rail Kit for JWS100 and JWS150				285-1437-ND	14.50 13.00	LDIN100/150

Series	Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1 10	TDK-Lambda Part No.
DIN Rail Kit for JWS300 and JWS600				285-1439-ND	65.00 62.00	LDIN300/600
DIN Rail Kit for HK10A-HK50A				285-1438-ND	12.50 11.30	LDIN30
DIN Rail Bracket for HWS15 and HWS30				285-1203-ND	16.75 15.00	DIN01
DIN Rail Bracket for HWS50				285-1204-ND	16.75 15.00	DIN02
DIN Rail Bracket for HWS100 and HWS150				285-1205-ND	20.00 18.50	DIN03

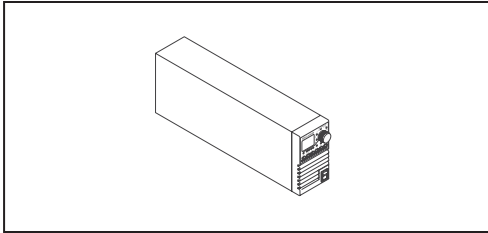
‡ 100/200VAC Input § Peak rating of 120A for 10s  
† Peak current and power possible at 170-26VAC input, 10s maximum, 35% duty cycle

**ZUP Series Programmable**

**Features:**

- Constant voltage/constant current • Last setting memory • Digital meters
- Built-in RS232 and RS485 interface with GPIB optional • Bench or rack mount
- Embedded microprocessor controller • Voltage up to 120V, current up to 132A

**Note:** For safety and EMI certifications, please see data sheets.



Voltage Range (V)	Current Range (A)	Maximum Power (W)	Digi-Key Part No.	Price Each 1 10	TDK-Lambda Part No.
0 - 6	0 - 33	198	285-1683-ND	1043.95 939.12	ZUP6-33/U
0 - 6	0 - 66	396	285-1684-ND	1377.02 1239.43	ZUP6-66/U
0 - 6	0 - 132	792	285-1682-ND	1949.22 1754.85	ZUP6-132/U
0 - 10	0 - 20	200	285-1668-ND	1043.95 939.12	ZUP10-20/U
0 - 10	0 - 40	400	285-1669-ND	1377.02 1239.43	ZUP10-40/U
0 - 10	0 - 80	800	285-1670-ND	1949.22 1754.85	ZUP10-80/U
0 - 20	0 - 10	200	285-1673-ND	1043.95 939.12	ZUP20-10/U
0 - 20	0 - 20	400	285-1674-ND	1377.02 1239.43	ZUP20-20/U
0 - 20	0 - 40	800	285-1675-ND	1949.22 1754.85	ZUP20-40/U
0 - 36	0 - 6	216	285-1678-ND	1043.95 939.12	ZUP36-6/U
0 - 36	0 - 12	432	285-1676-ND	1377.02 1239.43	ZUP36-12/U
0 - 36	0 - 24	864	285-1677-ND	1949.22 1754.85	ZUP36-24/U
0 - 60	0 - 7	420	285-1681-ND	1377.02 1239.43	ZUP60-7/U
0 - 60	0 - 14	840	285-1679-ND	1949.22 1754.85	ZUP60-14/U
0 - 80	0 - 2.5	200	285-1685-ND	1043.95 939.12	ZUP80-2.5/U
0 - 80	0 - 5	400	285-1686-ND	1377.02 1239.43	ZUP80-5/U
0 - 120	0 - 1.8	216	285-1671-ND	1043.95 939.12	ZUP120-1.8/U
0 - 120	0 - 3.6	432	285-1672-ND	1377.02 1239.43	ZUP120-3.6/U
RS232 Communications Cable DB-9			285-1666-ND	37.13 34.00	ZUP/NC401
RS485 Communications Cable DB-9			285-1667-ND	37.13 34.00	ZUP/NC402

**Front End Switching**

**Features:**

- TH Series:** • 1U high • Up to 10,000W in 19" rack • Hot swap capable • High efficiency
- TL Series:** • 2U high • Up to 12,500W in 19" rack • Hot swap capable • >90% efficiency • Full power at 65°C ambient
- FPS1000 Series:** • 1U high • Up to 3000W (3 units) in 19" rack • Hot swap capable (ORing diodes built in) • Low cost • PoE option

**Note:** For safety and EMI certifications, please see series data sheets.

**Fig. 1 - TH Series**

**Fig. 2 - TL Series**

**Fig. 3 - FPS1000 Series**

Fig.	Output Voltage (V)	Output Current (A)	Maximum Power (W)	Digi-Key Part No.	Price Each 1 10	TDK-Lambda Part No.
1	12	100	1200	285-1639-ND§	915.00 865.00	TH120012
	24	50	1250	285-1640-ND	860.00 810.01	TH120024
	48	25	1250	285-1641-ND	840.00 790.00	TH120048
	48	40	2000	285-1642-ND	1200.00 1150.01	TH200048
2	24	40	1000	285-1645-ND	800.00 760.00	TL100024
	48	20	1000	285-1646-ND	800.00 760.00	TL100048
3	24	40	960	285-1237-ND	600.00 525.00	FPS100024

Fig.	Output Voltage (V)	Output Current (A)	Maximum Power (W)	Digi-Key Part No.	Price Each 1 10	TDK-Lambda Part No.
3	32	31	992	285-1238-ND	600.00 525.00	FPS100032
	48	21	1008	285-1239-ND	600.00 525.00	FPS100048
19" Rack for THRPB Blanking Panel				285-1643-ND	660.00 630.00	THR4
19" Rack for TLRPB Blanking Panel				285-1644-ND	140.00 132.00	THRBP
3 Slot Rack for FPS1000				285-1647-ND	490.00 465.01	TLR5
				285-1648-ND	95.00 90.00	TLRBP
				285-1240-ND	640.00 560.01	FPSS1U

§ Use rack model THR400

**AC/DC PCB Mount**

- Features: KM Series:** • Small size and lightweight • PC board mountable • Wide Range Input • Medical Safety Certifications (4kVAC Input-Output) • Class II (No ground needed)
- KW Series:** • Small size and lightweight • PC board mountable • -10°C ~ 70°C continuous operation • 85 ~ 265VAC wide range input • Convection cooled
- PFE500/700 Series:** • Low profile, small size • 100°C baseplate temperature • High power density • High efficiency

**Note:** For safety and EMI certifications, please see series data sheets.

**Fig. 1 - KM Series**

Medical Approved

**Fig. 2 - KW Series**

**Fig. 3 - PFE500/700 Series**

Fig.	Output Voltage (V)	Output Current (A)	Power (W)	Digi-Key Part No.	Price Each 1 10	TDK-Lambda Part No.	
<b>Single Output - Medical Approved</b>							
1	3.3	3	9.9	285-1782-ND	49.62 37.00	KMS15-3P3	
	3.3	8	26.4	285-1783-ND	74.62 55.00	KMS40-3P3	
	5	3	15	285-1765-ND	49.34 43.54	KMS15-5	
	5	8	40	285-1767-ND	74.62 55.00	KMS40-5	
	12	1.25	15	285-1763-ND	49.62 37.00	KMS15-12	
	12	3.33	40	285-1757-ND	74.62 55.00	KMS40-12	
	15	2.67	40	285-1766-ND	74.62 55.00	KMS40-15	
	15	1	15	285-1764-ND	49.62 37.00	KMS15-15	
	24	0.62	15	285-1756-ND	49.62 37.00	KMS15-24	
	24	1.67	40	285-1758-ND	74.62 55.00	KMS40-24	
<b>Dual Output - Medical Approved</b>							
1	±5	1.5	15	285-1779-ND	53.85 40.00	KMD15-55	
	±5	4	40	285-1774-ND	80.00 59.00	KMD40-55	
	±12	0.62	15	285-1759-ND	53.85 40.00	KMD15-1212	
	±12	1.66	40	285-1761-ND	80.00 59.00	KMD40-1212	
	±15	0.50	15	285-1760-ND	53.85 40.00	KMD15-1515	
	±15	1.33	40	285-1762-ND	80.00 59.00	KMD40-1515	
	5/12	1.25	40	285-1780-ND	80.00 59.00	KMD40-512	
	5/24	0.62	40	285-1781-ND	80.00 59.00	KMD40-524	
	<b>Triple Output - Medical Approved</b>						
	1	5/±12	0.20	15	285-1775-ND	70.00 51.50	KMT15-51212
5/±12		0.60	40	285-1777-ND	95.00 70.00	KMT40-51212	
5/±15		0.15	15	285-1776-ND	70.00 51.50	KMT15-51515	
5/±15		0.50	40	285-1778-ND	95.00 70.00	KMT40-51515	

Fig.	Output Voltage (V)	Output Current (A)	Power (W)	Digi-Key Part No.	Price Each 1 10	TDK-Lambda Part No.
<b>Single Output</b>						
2	5	1	5	285-1436-ND	51.00 47.00	KWS5-5
	5	2	10	285-1430-ND	65.00 59.00	KWS10-5
	5	3	15	285-1433-ND	76.00 70.00	KWS15-5
	12	0.45	5	285-1434-ND	51.00 47.00	KWS5-12
	12	0.9	10	285-1428-ND	65.00 59.00	KWS10-12
	12	1.3	15	285-1431-ND	76.00 70.00	KWS15-12
	15	0.35	5	285-1435-ND	51.00 47.00	KWS5-15
	15	0.7	10	285-1429-ND	65.00 59.00	KWS10-15
	15	1	15	285-1432-ND	76.00 70.00	KWS15-15
	3	12	33	396	285-1493-ND	273.00 245.00
28		18	504	285-1494-ND	273.00 245.00	PFE500S-28
48		10.5	504	285-1495-ND	273.00 245.00	PFE500S-48
51		14	714	285-1496-ND	298.00 265.01	PFE700S-48
<b>Dual Output</b>						
2	±12	±0.22	5	285-1426-ND	58.00 53.00	KWD5-1212
	±12	±0.45	10	285-1422-ND	73.00 67.00	KWD10-1212
	±12	±0.65	15	285-1424-ND	86.00 79.00	KWD15-1212
	±15	±0.18	5	285-1427-ND	58.00 53.00	KWD5-1515
	±15	±0.36	10	285-1423-ND	73.00 67.00	KWD10-1515
	±15	±0.52	15	285-1425-ND	86.00 79.00	KWD15-1515



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