

# OFF-LINE SWITCH MODE TINY SWITCH TRANSFORMERS

**Indicated Parts are UL1950, IEC950, CSA-950 Recognized Under UL File# E162344**

- \* Designed for Use with Power Integrations IC's, Tiny Switch Family
- \* Output Voltage Range from 3.5 to 27 Vdc
- \* 3000 Vrm Isolation (Hi-Pot). Meets UL1950, IEC950 Safety Standard
- \* Units are Designed for a Universal AC Input of 85 to 265Vac, 47/440 Hz, Unless otherwise Designated

## GENERAL ELECTRICAL SPECIFICATIONS AT 25°C



**CLICK ON THE RESPECTIVE PART NUMBER TO DISPLAY A DETAIL DATA SHEET**

PART NUMBER	Recommended Power Intgr. Controller	Output Voltages (Vdc)	Output Currents (Amp)	VR1 Voltages Ref(V)	Part Number	Manufacturer Made
PNY-05015	TNY-255	3.5	1.8	3.0	1N5225B	Motorola
		3.8	1.7	3.3	1N5226B	Motorola
		4.0	1.6	3.6	1N5227B	Motorola
		4.4	1.5	3.9	1N5228B	Motorola
		4.9	1.4	4.3	1N5229B	Motorola
		5.2	1.3	4.7	1N5230B	Motorola
		5.8	1.2	5.1	1N5231B	Motorola
		6.1	1.2	5.6	1N5232B	Motorola
		6.5	1.1	6.0	1N5233B	Motorola
		6.8	1.1	6.2	1N5234B	Motorola
		7.5	1.0	6.8	1N5235B	Motorola
		8.4	1.0	7.5	1N5236B	Motorola
		9.0	0.9	8.2	1N5237B	Motorola
		9.8	0.8	9.1	1N5239B	Motorola
11.2	0.5	10.0	1N5240B	Motorola		
PNY-05015	TNY-256	3.6	1.7	3.0	1N5225B	Motorola
		3.9	1.8	3.3	1N5226B	Motorola
		4.2	1.3	3.6	1N5227B	Motorola
		4.6	1.45	3.9	1N5228B	Motorola
		5.0	1.57	4.3	1N5229B	Motorola
		5.4	1.3	4.7	1N5230B	Motorola
		5.9	1.14	5.1	1N5231B	Motorola
		6.2	1.20	5.6	1N5232B	Motorola
		6.8	1.1	6.0	1N5233B	Motorola
		7.0	1.13	6.2	1N5234B	Motorola
		7.6	1.06	6.8	1N5235B	Motorola
		8.4	1.04	7.5	1N5236B	Motorola
		9.0	0.9	8.2	1N5237B	Motorola
		9.8	0.81	9.1	1N5239B	Motorola
11.2	0.5	10.0	1N5240B	Motorola		

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PART NUMBER	Recommended Power Intgr. Controller	Output Voltages (Vdc)	Output Currents (Amp)	VR1 Voltages Ref(V)	Part Number	Manufacturer Made
PNY-05015	TNY-264	3.5	1.5	3.0	1N5225B	Motorola
		4.0	1.25	3.3	1N5226B	Motorola
		4.2	0.99	3.6	1N5227B	Motorola
		4.6	1.08	3.9	1N5228B	Motorola
		5.0	0.96	4.3	1N5229B	Motorola
		5.4	0.88	4.7	1N5230B	Motorola
		5.8	0.93	5.1	1N5231B	Motorola
		6.2	0.99	5.6	1N5232B	Motorola
		6.7	0.81	6.0	1N5233B	Motorola
		7.2	0.87	6.2	1N5234B	Motorola
		7.4	0.90	6.8	1N5235B	Motorola
		8.4	0.69	7.5	1N5236B	Motorola
		9.1	0.53	8.2	1N5237B	Motorola
		10	0.30	9.1	1N5239B	Motorola
PNY-05015	TNY-266	3.5	1.5	3.0	1N5225B	Motorola
		3.9	1.7	3.3	1N5226B	Motorola
		4.0	1.7	3.6	1N5227B	Motorola
		4.5	1.42	3.9	1N5228B	Motorola
		4.8	1.52	4.3	1N5229B	Motorola
		5.4	1.27	4.7	1N5230B	Motorola
		5.7	1.34	5.1	1N5231B	Motorola
		6.0	1.43	5.6	1N5232B	Motorola
		6.6	1.27	6.0	1N5233B	Motorola
		7.0	1.36	6.2	1N5234B	Motorola
		7.4	1.19	6.8	1N5235B	Motorola
		8.4	1.18	7.5	1N5236B	Motorola
		9.1	1.11	8.2	1N5237B	Motorola
		9.8	0.96	9.1	1N5239B	Motorola
		11.2	0.50	10.0	1N5240B	Motorola

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PART NUMBER	Recommended Power Intgr. Controller	Output Voltages (Vdc)	Output Currents (Amp)	VR1 Voltages Ref(V)	Part Number	Manufacturer Made
PNY-05015	TNY-267	3.5	1.5	3.0	1N5225B	Motorola
		3.9	1.7	3.3	1N5226B	Motorola
		4.0	1.8	3.6	1N5227B	Motorola
		4.4	1.9	3.9	1N5228B	Motorola
		4.9	1.5	4.3	1N5229B	Motorola
		5.3	1.6	4.7	1N5230B	Motorola
		5.6	1.7	5.1	1N5231B	Motorola
		6.1	1.4	5.6	1N5232B	Motorola
		6.5	1.5	6.0	1N5233B	Motorola
		6.9	1.6	6.2	1N5234B	Motorola
		7.3	1.4	6.8	1N5235B	Motorola
		8.2	1.3	7.5	1N5236B	Motorola
		8.9	0.97	8.2	1N5237B	Motorola
		9.6	0.67	9.1	1N5239B	Motorola
11.3	0.56	10.0	1N5240B	Motorola		
PNY-05015	TNY-268	3.5	1.5	3.0	1N5225B	Motorola
		3.9	1.7	3.3	1N5226B	Motorola
		4.0	1.8	3.6	1N5227B	Motorola
		4.4	1.9	3.9	1N5228B	Motorola
		4.9	1.5	4.3	1N5229B	Motorola
		5.3	1.6	4.7	1N5230B	Motorola
		5.6	1.7	5.1	1N5231B	Motorola
		6.0	1.8	5.6	1N5232B	Motorola
		6.5	1.5	6.0	1N5233B	Motorola
		7.0	1.3	6.2	1N5234B	Motorola
		7.3	1.4	6.8	1N5235B	Motorola
		8.4	1.0	7.5	1N5236B	Motorola
		9.2	0.89	8.2	1N5237B	Motorola
		9.9	0.80	9.1	1N5239B	Motorola
11.3	0.56	10.0	1N5240B	Motorola		

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PART NUMBER	Recommended Power Intgr. Controller	Output Voltages (Vdc)	Output Currents (Amp)	VR1 Voltages Ref (V)	Part Number	Manufacturer Made
PNY-07006	TNY-254	3.1	0.7	3.9	1N5228B	Motorola
		3.5	0.7	4.3	1N5229B	Motorola
		4.2	0.7	4.7	1N5230B	Motorola
		5.8	0.6	5.1	1N5231B	Motorola
		6.2	0.6	5.6	1N5232B	Motorola
		6.6	0.6	6.0	1N5233B	Motorola
		6.9	0.5	6.2	1N5234B	Motorola
		7.5	0.5	6.8	1N5235B	Motorola
		8.3	0.5	7.5	1N5236B	Motorola
		8.9	0.4	8.2	1N5237B	Motorola
		9.7	0.4	8.7	1N5238B	Motorola
		11.0	0.3	10.0	1N5240B	Motorola
		12.0	0.3	11.0	1N5241B	Motorola
		12.5	0.3	12.0	1N5242B	Motorola
		13.1	0.3	13.0	1N5243B	Motorola
14.1	0.3	14.0	1N5244B	Motorola		
16.0	0.2	15.0	1N5245B	Motorola		
16.7	0.2	16.0	1N5246B	Motorola		
PNY-07006	TNY-256	3.08	1.43	3.9	1N5228B	Motorola
		3.50	1.12	4.3	1N5229B	Motorola
		4.60	0.91	4.7	1N5230B	Motorola
		5.60	0.80	5.1	1N5231B	Motorola
		6.12	0.76	5.6	1N5232B	Motorola
		6.58	0.65	6.0	1N5233B	Motorola
		7.04	0.63	6.2	1N5234B	Motorola
		7.35	0.60	6.8	1N5235B	Motorola
		8.34	0.59	7.5	1N5236B	Motorola
		8.98	0.50	8.2	1N5237B	Motorola
		9.62	0.48	8.7	1N5238B	Motorola
		10.90	0.45	10.0	1N5240B	Motorola
		11.88	0.40	11.0	1N5241B	Motorola
		12.57	0.38	12.0	1N5242B	Motorola
		13.26	0.37	13.0	1N5243B	Motorola
14.10	0.32	14.0	1N5244B	Motorola		
15.70	0.30	15.0	1N5245B	Motorola		
16.93	0.26	16.0	1N5246B	Motorola		

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PART NUMBER	Recommended Power Intgr. Controller	Output Voltages (Vdc)	Output Currents (Amp)	VR1 Voltages Ref (V)	Part Number	Manufacturer Made
PNY-07006	TNY-264	4.7	0.9	3.9	1N5228B	Motorola
		5.0	0.8	4.3	1N5229B	Motorola
		5.5	0.88	4.7	1N5230B	Motorola
		5.9	0.82	5.1	1N5231B	Motorola
		6.2	0.76	5.6	1N5232B	Motorola
		6.7	0.82	6.0	1N5233B	Motorola
		7.2	0.79	6.2	1N5234B	Motorola
		7.5	0.73	6.8	1N5235B	Motorola
		8.5	0.69	7.5	1N5236B	Motorola
		9.1	0.64	8.2	1N5237B	Motorola
		9.9	0.61	8.7	1N5238B	Motorola
		11.3	0.51	10.0	1N5240B	Motorola
		12.3	0.41	11.0	1N5241B	Motorola
		12.3	0.43	12.0	1N5242B	Motorola
		13.9	0.43	13.0	1N5243B	Motorola
		14.4	0.39	14.0	1N5244B	Motorola
		16.3	0.29	15.0	1N5245B	Motorola
17.5	0.24	16.0	1N5246B	Motorola		
PNY-07006	TNY-266	4.6	1.1	3.9	1N5228B	Motorola
		5.0	1.1	4.3	1N5229B	Motorola
		5.4	1.3	4.7	1N5230B	Motorola
		5.8	1.1	5.1	1N5231B	Motorola
		6.2	1.2	5.6	1N5232B	Motorola
		6.7	1.0	6.0	1N5233B	Motorola
		7.1	1.1	6.2	1N5234B	Motorola
		7.5	1.0	6.8	1N5235B	Motorola
		8.5	1.0	7.5	1N5236B	Motorola
		9.1	1.0	8.2	1N5237B	Motorola
		9.9	1.0	8.7	1N5238B	Motorola
		11.2	0.92	10.0	1N5240B	Motorola
		12.2	0.86	11.0	1N5241B	Motorola
		13.0	0.86	12.0	1N5242B	Motorola
		13.9	0.81	13.0	1N5243B	Motorola
		14.8	0.81	14.0	1N5244B	Motorola
		16.30	0.73	15.0	1N5245B	Motorola
17.5	0.67	16.0	1N5246B	Motorola		

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PART NUMBER	Recommended Power Intgr. Controller	Output Voltages (Vdc)	Output Currents (Amp)	VR1 Voltages Ref(V)	Part Number	Manufacturer Made
PNY-07006	TNY-267	4.6	1.4	3.9	1N5228B	Motorola
		4.9	1.5	4.3	1N5229B	Motorola
		5.4	1.6	4.7	1N5230B	Motorola
		5.8	1.3	5.1	1N5231B	Motorola
		6.1	1.4	5.6	1N5232B	Motorola
		6.6	1.5	6.0	1N5233B	Motorola
		7.1	1.3	6.2	1N5234B	Motorola
		7.4	1.2	6.8	1N5235B	Motorola
		8.4	1.1	7.5	1N5236B	Motorola
		9.1	1.1	8.2	1N5237B	Motorola
		9.8	1.1	8.7	1N5238B	Motorola
		11.2	1.0	10.0	1N5240B	Motorola
		12.2	1.0	11.0	1N5241B	Motorola
		12.9	1.0	12.0	1N5242B	Motorola
		13.8	0.97	13.0	1N5243B	Motorola
		14.7	0.90	14.0	1N5244B	Motorola
		16.3	0.81	15.0	1N5245B	Motorola
17.8	0.73	16.0	1N5246B	Motorola		
PNY-07006	TNY-268	4.6	1.44	3.9	1N5228B	Motorola
		4.9	1.54	4.3	1N5229B	Motorola
		5.3	1.6	4.7	1N5230B	Motorola
		5.8	1.3	5.1	1N5231B	Motorola
		6.1	1.4	5.6	1N5232B	Motorola
		6.6	1.2	6.0	1N5233B	Motorola
		7.1	1.3	6.2	1N5234B	Motorola
		7.3	1.4	6.8	1N5235B	Motorola
		8.4	1.3	7.5	1N5236B	Motorola
		9.0	1.2	8.2	1N5237B	Motorola
		9.8	1.1	8.7	1N5238B	Motorola
		11.2	1.08	10.0	1N5240B	Motorola
		12.1	1.0	11.0	1N5241B	Motorola
		12.9	1.0	12.0	1N5242B	Motorola
		13.8	0.96	13.0	1N5243B	Motorola
		14.7	0.90	14.0	1N5244B	Motorola
		16.3	0.85	15.0	1N5245B	Motorola
18.7	0.77	16.0	1N5246B	Motorola		

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PART NUMBER	Recommended Power Intgr. Controller	Output Voltages (Vdc)	Output Currents (Amp)	VR1 Voltages Ref (V)	Part Number	Manufacturer Made
PNY-24004	TNY-255	26.9	0.30	24	1N5252B	Motorola
		22.7	0.42	20	1N5250B	Motorola
		21.1	0.46	19	1N5249B	Motorola
		18.4	0.50	17	1N5247B	Motorola
		17.6	0.53	16	1N5246B	Motorola
		16.0	0.55	15	1N5245B	Motorola
		13.7	0.64	13	1N5243B	Motorola
		12.6	0.70	12	1N5242B	Motorola
		12.0	0.72	11	1N5241B	Motorola
		9.9	0.77	9.1	1N5239B	Motorola
7.5	0.92	6.8	1N5235B	Motorola		
PNY-24004	TNY-256	27.3	0.30	24	1N5252B	Motorola
		22.2	0.40	20	1N5250B	Motorola
		20.7	0.44	19.1	1N5249B	Motorola
		18.4	0.49	17	1N5247B	Motorola
		17.6	0.52	16	1N5246B	Motorola
		16.5	0.55	15	1N5245B	Motorola
		13.5	0.64	13	1N5243B	Motorola
		12.7	0.71	12	1N5242B	Motorola
		12.1	0.72	11	1N5241B	Motorola
		9.9	0.82	9.1	1N5239B	Motorola
7.7	0.94	6.8	1N5235B	Motorola		
PNY-24004	TNY-264	24	0.044	24	1N5252B	Motorola
		22.3	0.048	20	1N5250B	Motorola
		20.7	0.080	19	1N5249B	Motorola
		18.5	0.20	17	1N5247B	Motorola
		18	0.22	16	1N5246B	Motorola
		16.4	0.27	15	1N5245B	Motorola
		14	0.34	13	1N5243B	Motorola
		13.1	0.39	12	1N5242B	Motorola
		12.4	0.44	11	1N5241B	Motorola
		9.9	0.52	9.1	1N5239B	Motorola
7.5	0.67	6.8	1N5235B	Motorola		
PNY-24004	TNY-267	23.9	0.40	24	1N5252B	Motorola
		22.0	0.51	20	1N5250B	Motorola
		20.4	0.67	19	1N5249B	Motorola
		18.2	0.75	17	1N5247B	Motorola
		18	0.81	16	1N5246B	Motorola
		16.3	0.89	15	1N5245B	Motorola
		13.8	1.0	13	1N5243B	Motorola
		12.9	1.0	12	1N5242B	Motorola
		12.2	1.1	11	1N5241B	Motorola
		9.8	1.2	9.1	1N5239B	Motorola
7.3	1.4	6.8	1N5235B	Motorola		

Specifications subject to change without notice.

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PART NUMBER	Recommended Power Intgr. Controller	Output Voltages (Vdc)	Output Currents (Amp)	VR1 Voltages Ref (V)	Part Number	Manufacturer Made
PNY-24004	TNY-268	24	0.36	24	1N5252B	Motorola
		22	0.54	20	1N5250B	Motorola
		20.4	0.65	19.1	1N5249B	Motorola
		18.4	0.82	17	1N5247B	Motorola
		18	0.85	16	1N5246B	Motorola
		16.3	0.95	15	1N5245B	Motorola
		13.8	1.0	13	1N5243B	Motorola
		12.9	1.1	12	1N5242B	Motorola
		12.2	1.1	11	1N5241B	Motorola
		9.8	1.2	9.1	1N5239B	Motorola
		7.3	1.4	6.8	1N5235B	Motorola
PNY-12206	TNY-256	12/12/5	.06/.06/.60			
PNY-12238	TNY-267	12/12	.380/.380			
PNY-15000	TNY-266	5/15	.050/.500			
PNY-24002	TNY-266	24	.400			
TSD-1460	TNY-254	5	.500			