





Open Frame





- 1000W
- 950W
- 850W
- 660W

1000 W	950 W	850 W	660 W
4"x8.3"  PoE >>> Developing	5"x10"  PoE >>> Developing	3.86"x8.27"  PoE >>> Developing	4"x7"  PoE >>> Developing
<ul style="list-style-type: none"> • PoE IEEE 802.3af/at/bt • N+1 redundancy • 12Vdc for fan use 	<ul style="list-style-type: none"> • IEC/EN/UL 62368-1 • PoE IEEE 802.3af/at/bt • RPS redundancy 	<ul style="list-style-type: none"> • PoE IEEE 802.3af/at/bt • 1+1 redundancy design • Current sharing 	<ul style="list-style-type: none"> • IEC/EN/UL 62368-1 • N+1 redundancy • 1782W (660W x3)

Model Name		TN19-1000-01	TN15-0950-03		TN17-0850-01	TN19-0660-01
Output	Rated Power	1,000 W (25CFM)	950 W (22.5CFM)		850 W (18.7CFM)	660 W (22.2CFM x2)
	Output Voltage	56 Vdc	12 Vdc	54 Vdc	12 Vdc	12 Vdc
	Max. Output Current	17.8 A	16.7 A	13.7 A	8.34 A	13.63 A
	Over Current Limit	22 A	22.5 A	17.8 A	9.1~12.5 A	14.0~18.1A
	Min. Output Current	0 A	0.1 A	0 A	0 A	
	Ripple & Noise	≤ 500 mVp-p	≤ 1 %		≤ 1 %	≤ 1 %
Input	Hold Up Time	≥ 10 ms	≥ 16 ms		≥ 8 ms	≥ 20 ms
	Input Voltage	90~264 Vac	90~264 Vac		90~140 Vac, 180~264 Vac	90~264 Vac
	Input Frequency	47~63 Hz	47~63 Hz		47~63 Hz	47~63 Hz
	Power Factor	≥ 0.95	≥ 0.9		≥ 0.9	≥ 0.95
Others	Efficiency	≥ 94 %	≥ 87 %		≥ 88 %	≥ 90 %
	Operating Temperature	0~+50 °C	0~+50 °C		0~+50 °C	-20~+70 °C
	Operating Humidity	10~90 %RH	5~95 %RH		20~80 %RH	5~95 %RH
	Operating Altitude	5,000 m	5,000 m		5,000 m	5,000 m
	Dimension (W x L x H)	100 x 210 x 33.5 mm	127 x 254 x 41.5 mm		98 x 210 x 33.8 mm	101.6 x 177.8 x 33.8 mm
	MTBF	≥ 1,000,000 hours	≥ 100,000 hours		≥ 100,000 hours	≥ 200,000 hours
	Certifications	CB, TÜV, UL/cUL	CB, TÜV, UL/cUL		CB, TÜV, UL/cUL	CB, TÜV, UL/cUL

Open Frame

- 610W
- 589W
- 470W
- 300W

610 W	589 W	470 W	300 W
5"x10"  PoE	5"x10"  PoE	4"x6"  PoE	3.15"x6.1"  PoE
<ul style="list-style-type: none"> • PoE IEEE 802.3af/at/bt • Redundancy design • Low inrush current 	<ul style="list-style-type: none"> • PoE IEEE 802.3af/at/bt • Insulation regulation • 1+1 redundancy design 	<ul style="list-style-type: none"> • PoE IEEE 802.3af/at/bt • 1+1 redundancy design • 846W (470W x2) 	<ul style="list-style-type: none"> • PoE IEEE 802.3af/at/bt • Insulation regulation • Low EMI design




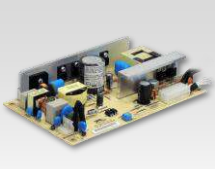
Model Name		TN14-0610-02	TN09-0589-02		TN16-0450-01	TN13-0300-01
Output	Rated Power	610 W (15CFM x2)	589 W (15CFM x2)		470 W (22.2CFM x2)	300 W (17.69CFM)
	Output Voltage	5 Vsb	12 Vdc	54 Vdc	12 Vdc	54 Vdc
	Max. Output Current	2.0 A	16.7 A	7.4 A	14 A	7.8 A
	Over Current Limit	---	22.5 A	9.7 A	≤ 20 A	≤ 12 A
	Min. Output Current	0 A	0.1 A	0 A	0 A	0 A
	Ripple & Noise	≤ 1 %		≤ 120 mVp-p	≤ 500 mVp-p	≤ 1 %
Input	Hold Up Time	≥ 20 ms	≥ 20 ms		≥ 10 ms	≥ 10 ms
	Input Voltage	90~264 Vac	90~264 Vac		90~264 Vac	90~264 Vac
	Input Frequency	47~63 Hz	47~63 Hz		47~63 Hz	47~63 Hz
	Power Factor	≥ 0.9	≥ 0.98		≥ 0.95	≥ 0.95
Others	Efficiency	≥ 87 %	≥ 87 %		≥ 90 %	≥ 90 %
	Operating Temperature	0~+50 °C	-20~+70 °C		-20~+70 °C	-10~+50 °C
	Operating Humidity	5~95 %RH	5~95 %RH		20~90 %RH	20~90 %RH
	Operating Altitude	5,000 m	5,000 m		5,000 m	5,000 m
	Dimension (W x L x H)	127 x 254 x 41.5 mm	129 x 254 x 41.5 mm		101.6 x 152.4 x 33.8 mm	80 x 155 x 35.4 mm
	MTBF	≥ 300,000 hours	≥ 100,000 hours		≥ 100,000 hours	≥ 100,000 hours
	Certifications	CB, TÜV, UL/cUL	CB, UL/cUL		CB, UL/cUL, CCC	CB, TÜV, UL/cUL, CCC

* Specifications are subject to change without notice



Open Frame




- 300/500W
- 250W 3"x5"
- 250W 2"x4"
- 156W

300/500 W	250 W	250 W	156 W
3.68"x8.66"  >>> Developing	3"x5" 	2"x4" 	4"x7" 
<ul style="list-style-type: none"> • 500W @25 CFM • IEC/EN/UL 62368-1 • 1+1 redundancy design 	<ul style="list-style-type: none"> • 200W @Fanless • IEC/EN/UL 62368-1 • 0.21W @0% Load 	<ul style="list-style-type: none"> • 140W @Fanless • IEC/EN/UL 62368-1 • Wide temp. 40~+70°C 	<ul style="list-style-type: none"> • IEC/EN/UL 62368-1 • 1+1 redundancy • Power ok signal

Model Name		TN20-0300-01	TN17-0250-12/24/48/55	TN19-0250-12/24/48/55	TN09-0156-01
Output	Rated Power	300W (Fanless)		250 W (13CFM)	
	Output Voltage	12 Vdc 54 Vdc	12Vdc 24Vdc 48Vdc 55Vdc	12Vdc 24Vdc 48Vdc 55Vdc	12 Vdc
	Max. Output Current	5 A 4.44 A	20.8 A 10.4 A 5.2 A 4.5 A	20.8 A 10.4 A 5.2 A 4.5 A	13 A
	Over Current Limit	5.5~8.3 A 4.88~7.38 A	27 A 14 A 7 A 6 A	105~145 %	19 A
	Min. Output Current	0 A 0 A	0.1 A 0.1 A 0.1 A 0.1 A	0 A	1 A
	Ripple & Noise	≤ 120 mVp-p ≤ 200 mVp-p	≤ 1 %	≤ 1 %	≤ 1 %
Input	Hold Up Time	≥ 25 ms ≥ 16 ms	≥ 10 ms	≥ 10 ms	≥ 10 ms
	Input Voltage	90~264 Vac		90~264 Vac	
	Input Frequency	47~63 Hz		47~63 Hz	
	Power Factor	≥ 0.95		≥ 0.95	
Others	Efficiency	≥ 94 %		91.3% 94.2% 93.9% 93.9%	92.5% 93.5% 94.5% 94.5%
	Operating Temperature	-40~+75 °C		-20 ~+70 °C	
	Operating Humidity	10~90 %RH		20~90 %RH	
	Operating Altitude	5,000 m		5,000 m	
	Dimension (W x L x H)	93.4 x 220 x 40.5 mm		76.2 x 127 x 33.4 mm	
	MTBF	≥ 300,000 hours		≥ 500,000 hours	
	Certifications	CB, TÜV, UL/cUL		CB, TÜV, UL/cUL	

Open Frame

- 150W
- 130W
- 60W

150 W	130 W	60 W
7"x11" 	2"x4" 	2"x4" 
<ul style="list-style-type: none"> • 150W @Fanless • 0.59" low profile size • Display application 	<ul style="list-style-type: none"> • IEC/EN/UL 62368-1 • 0.5W @0% Load • MTBF > 715,000Hrs 	<ul style="list-style-type: none"> • 60W @Fanless • IEC/EN/UL 62368-1 • 15W @0% Load









Model Name		TN16-0150-01	TN14-0130-12/24/27/57	TN19-0060-12/24/48	
Output	Rated Power	150 W (Fanless)		60 W (Fanless)	
	Output Voltage	5.1Vsb 5.1Vdc 12Vdc 24Vdc	12Vdc 24Vdc 27Vdc 57Vdc	12 Vdc 24 Vdc 48 Vdc	
	Max. Output Current	2 A 4 A 3.5 A 3.2 A	10.9 A 5.4 A 4.8 A 2.3 A	5.0 A 2.5 A 1.25 A	
	Over Current Limit	5 A 9 A 17.5 A 12.8 A	110~160%	10 A 5 A 3 A	
	Min. Output Current	0 A 0 A 0 A 0 A	0 A	0 A	
	Ripple & Noise	120 mVp-p 180mV 240mV	≤ 1 %	≤ 1 %	
Input	Hold Up Time	≥ 10 ms	≥ 10 ms	≥ 16 ms	
	Input Voltage	90~264 Vac		90~264 Vac	
	Input Frequency	47~63 Hz		47~63 Hz	
	Power Factor	≥ 0.9		---	
Others	Efficiency	≥ 85 %		88% 88% 89% 87%	
	Operating Temperature	0~+60 °C		-20~+70 °C	
	Operating Humidity	10~80 %RH		20~90 %RH	
	Operating Altitude	5,000 m		5,000 m	
	Dimension (W x L x H)	180 x 283 x 15mm		50.8 x 101.6 x 32.6 mm	
	MTBF	≥ 200,000 hours		≥ 715,000 hours	
	Certifications	Meets CB, UL/cUL, CCC		CB, TÜV, UL/cUL	

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Enclosed


- 1600W
- 1100W
- 1010W
- 950W

1600 W	1100 W	1010 W	950 W
CRPS PSU 	Slim Type 	Industrial Level 	IEEE 802.3af/at/bt 
			
<ul style="list-style-type: none"> • PMbus, Black Box, FRU • N+1 redundancy • Cold redundancy 	<ul style="list-style-type: none"> • PMbus, Black Box, FRU • N+1 redundancy • AFO(01)/AFI(02) 	<ul style="list-style-type: none"> • Power ok signal • Remote power control • 5V/0.5 auxiliary output 	<ul style="list-style-type: none"> • PMbus • N+1 redundancy • AFO(02)/AFI(03)

Model Name		TG17-1600-01 TG17-1600-02			TG20-1100-01/02		TG17-1000-01		TG14-0950-02/03	
Output	Rated Power	1600 W			1100 W		1010 W		950 W	
	Output Voltage	12Vsb 12Vdc	54 Vdc	12 Vsb 12 Vdc	12 Vsb 12 Vdc	5 Vsb 48 Vdc	12 Vdc 56 Vdc	12 Vdc 56 Vdc	12 Vdc 56 Vdc	
	Max. Output Current	2.1 A 133 A	29.6 A	3 A 90 A	3 A 90 A	0.5 A 21 A	16.7 A 13.4 A	16.7 A 13.4 A	16.7 A 13.4 A	
	Over Current Limit	≤3~5A ≤153~166	≤ 34~37 A	110~180 % 110~140 %	---	< 28 A	17.5~22.5A 14.0~18.1A	17.5~22.5A 14.0~18.1A	17.5~22.5A 14.0~18.1A	
	Min. Output Current	0.1 A 1 A	0 A	0.1 A 1 A	0.1 A 1 A	0 A 0 A	0 A	0 A	0 A	
	Ripple & Noise	≤ 1 %			≤ 1 % & ≤ 2 %		≤ 4 % ≤ 1 %		≤ 1 %	
Input	Hold Up Time	≥ 10 ms			≥ 10 ms		≥ 16 ms		≥ 8 ms	
	Input Voltage	90~264 Vac			90~264 Vac		90~264 Vac		90~264 Vac	
	Input Frequency	47~63 Hz			47~63 Hz		47~63 Hz		47~63 Hz	
	Power Factor	≥ 0.99			≥ 0.99		≥ 0.95		≥ 0.95	
Others	Efficiency	≥ 94 %			≥ 94 %		≥ 88 %		≥ 90 %	
	Operating Temperature	0~+50 °C			-20~+60 °C		0~+50 °C		0~+50 °C	
	Operating Humidity	5~80 %RH			5~95 %RH		10~90 %RH		20~80 %RH	
	Operating Altitude	5,000 m			5,000 m		5,000 m		5,000 m	
	Dimension (W x L x H)	73.5 x 185 x 40 mm			50.5 x 240 x 40.5 mm		127 x 295 x 41 mm		78 x 230 x 40.5 mm	
	MTBF	≥ 100,000 hours			≥ 100,000 hours		≥ 300,000 hours		≥ 100,000 hours	
Certifications	Meets CB, TÜV, UL/cUL			CB, TÜV, UL/cUL		CB, UL/cUL		cUL, CB, TÜV, CE		

Enclosed

- 800W
- 650W
- 270W
- 250W

800 W	650W	270 W	250 W
CRPS PSU 	Slim Type 	Flex ATX PSU 	TFX PSU 
			
<ul style="list-style-type: none"> • PMbus, Black Box, FRU • N+1 redundancy • Cold redundancy 	<ul style="list-style-type: none"> • PMbus, Black Box, FRU • N+1 redundancy • Left Latch(01)/Right(02) 	<ul style="list-style-type: none"> • 1U industrial level • Intelligent fan control • Dual ball-bearing fans 	<ul style="list-style-type: none"> • Withstand up to 300V • Low EMI (10dB margin) • Dual ball-bearing fans

Model Name		TG17-0800-01		TG15-0650-01/02		TG13-0270-01					TG18-0250-01				
Output	Rated Power	800 W		650 W		270W@25°C~230W@50°C					250 W				
	Output Voltage	12 Vsb 12 Vdc	12 Vdc	5 Vsb 12 Vdc	12 Vdc	3.3 V 5 V 5Vsb 12 V -12V	3.3 V 5Vsb 5 V 12 V -12V	3.3 V 5Vsb 5 V 12 V -12V	3.3 V 5Vsb 5 V 12 V -12V	3.3 V 5Vsb 5 V 12 V -12V					
	Max. Output Current	2.1 A 65 A	65 A	3.0 A 52.9 A	52.9 A	10 A 12 A 2 A 16 A 0.3 A	10 A 12 A 2 A 16 A 0.3 A	10 A 12 A 2 A 16 A 0.3 A	10 A 12 A 2 A 16 A 0.3 A	10 A 12 A 2 A 16 A 0.3 A					
	Over Current Limit	≤ 3~5 A ≤ 75~79 A	≤ 75~79 A	3.3~6 A 58.2~71.4 A	58.2~71.4 A	18 A 20 A - 20 A -	18 A 20 A - 20 A -	18 A 20 A - 20 A -	18 A 20 A - 20 A -	18 A 20 A - 20 A -					
	Min. Output Current	0 A		0 A		0.5 A 1 A 0 A 1 A 0 A	0.5 A 1 A 0 A 1 A 0 A	0.5 A 1 A 0 A 1 A 0 A	0.5 A 1 A 0 A 1 A 0 A	0.5 A 1 A 0 A 1 A 0 A					
	Ripple & Noise	≤ 1 %		≤ 1 %		≤ 100mVp-p ≤ 200 mVp-p	≤ 100mVp-p ≤ 200 mVp-p	≤ 100mVp-p ≤ 200 mVp-p	≤ 100mVp-p ≤ 200 mVp-p	≤ 100mVp-p ≤ 200 mVp-p					
Input	Hold Up Time	≥ 11 ms		≥ 12 ms		≥ 17 ms					≥ 17 ms				
	Input Voltage	90~264 Vac		90~264 Vac		90~264 Vac					90~264 Vac				
	Input Frequency	47~63 Hz		47~63 Hz		47~63 Hz					47~63 Hz				
	Power Factor	≥ 0.99		≥ 0.98		≥ 0.9					≥ 0.9				
Others	Efficiency	≥ 94 %		≥ 94 %		≥ 85 %					≥ 85 %				
	Operating Temperature	0~+50 °C		0~+50 °C		0~+50 °C					0~+50 °C				
	Operating Humidity	10~90 %RH		10~90 %RH		5~85 %RH					5~95 %RH				
	Operating Altitude	5,000 m		3,050 m		3,000 m					5,000 m				
	Dimension (W x L x H)	73.5 x 185 x 40 mm		50.5 x 220 x 40.5 mm		81.5 x 150 x 40.5 mm					85 x 175 x 65 mm				
	MTBF	≥ 100,000 hours		≥ 100,000 hours		≥ 100,000 hours					≥ 900,000 hours				
Certifications	CB, TÜV, UL/cUL, CCC		CB, TÜV, UL/cUL, CCC		CB, UL/cUL					CB, UL/cUL					

* Specifications are subject to change without notice



► Adaptor

- 180W
- 75W
- 60/65W

180 W	75 W	60/65 W
High Peak Power 312W/13A	High Peak Power 216W/9A	High Peak Power 168W/7A (24V) 
		
<ul style="list-style-type: none"> • IEC/EN 61558 • No-Load : $\leq 0.21W$ • Output plug changeable 	<ul style="list-style-type: none"> • UL 62368-1 • No-Load : $\leq 0.15W$ • Output plug changeable 	<ul style="list-style-type: none"> • UL 62368-1 • No-Load : $\leq 0.15W$ • Output plug changeable

Model Name		TG16-0180-01	TG-7601-ES	TG15-0065-24	TG15-0065-48
Output	Rated Power	180 W	75 W	60 W	65 W
	Output Voltage	24 Vdc	24 Vdc	24 Vdc	48 Vdc
	Max. Output Current	7.5 A	3.125 A	2.5 A	1.36 A
	Over Current Limit	10.5 A	8 A	4 A	2.1 A
	Min. Output Current	0 A	0 A	0 A	0 A
	Ripple & Noise	≤ 400 mVp-p	≤ 240 mVp-p	≤ 240 mVp-p	≤ 300 mVp-p
Input	Hold Up Time	≥ 8 ms	≥ 10 ms	≥ 8 ms	
	Input Voltage	90~264 Vac	90~264 Vac	90~264 Vac	
	Input Frequency	47~63 Hz	47~63 Hz	47~63 Hz	
	Power Factor	≥ 0.9	---	---	
Others	Efficiency	≥ 89 %	≥ 89 %	≥ 89 %	
	Operating Temperature	0~+40 °C	0~+40 °C	0~+40 °C	
	Operating Humidity	10~85 %RH	20~85 %RH	10~85 %RH	
	Operating Altitude	2,000 m	5,000 m	5,000 m	
	Dimension (W x L x H)	86.5 x 203 x 51.5 mm	80 x 165 x 50 mm	62 x 110 x 32 mm	
	MTBF	$\geq 100,000$ hours	$\geq 100,000$ hours	$\geq 100,000$ hours	
	Certifications	CB, PSE	CB, UL/cUL, FCC, CCC, LPS, PSE, KC	CB, UL/cUL, CCC, LPS, BSMI, SIRIM	

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