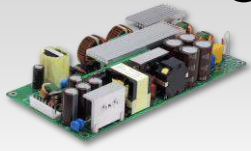









Open Frame

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

	1000 W	950 W	850 W	660 W
Dimension	4"x8.3"	5"x10"	3.86"x8.27"	4"x7"
				
	<ul style="list-style-type: none"> • PoE IEEE 802.3af/at/bt • 1+1 redundancy • 2000W (1000W x2) 	<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)
	Single	Dual	Dual	Dual
Model Name	TN19-1000-01	TN15-0950-03	TN17-0850-01	TN19-0660-01
Output	Rated Power: 1,000 W (18.7CFMx2)	Rated Power: 950 W (22.5CFM)	Rated Power: 850 W (18.7CFM)	Rated Power: 660 W (22.2CFM x2)
Output Voltage	56 Vdc	12 Vdc 54 Vdc	12 Vdc 55 Vdc	12 Vdc 54 Vdc
Max. Output Current	17.8 A	16.7 A 13.7 A	8.34 A 13.63 A	10 A 12 A
Over Current Limit	25 A	22.5 A 17.8 A	9.1~12.5 A 14.0~18.1A	20 A 24 A
Min. Output Current	0 A	0.1 A 0 A	0 A	0 A
Ripple & Noise	≤ 500 mVp-p	≤ 1 %	≤ 1 %	≤ 1 %
Hold Up Time	≥ 10 ms	≥ 16 ms	≥ 8 ms	≥ 20 ms
Input	Input Voltage: 90~264 Vac	Input Voltage: 90~264 Vac	Input Voltage: 90~140 Vac, 180~264 Vac	Input Voltage: 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
Efficiency	≥ 94 %	≥ 87 %	≥ 88 %	≥ 90 %
Others	Operating Temperature: 0~+50 °C	Operating Temperature: 0~+50 °C	Operating Temperature: 0~+50 °C	Operating Temperature: -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, 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
Dimension	5"x10"	5"x10"	4"x6"	3.15"x6.1"
				
	<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
	Triple	Dual	Dual	Dual
Model Name	TN14-0610-02	TN09-0589-02	TN16-0450-01	TN13-0300-01
Output	Rated Power: 610 W (15CFM x2)	Rated Power: 589 W (15CFM x2)	Rated Power: 470 W (22.2CFM x2)	Rated Power: 300 W (17.69CFM)
Output Voltage	5 Vsb 12 Vdc 54 Vdc	12 Vdc 54 Vdc	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	8.34 A 8.34 A	5.8 A 4.7 A
Over Current Limit	--- 22.5 A 9.7 A	≤ 20 A ≤ 12 A	≤ 15 A ≤ 12.5 A	12 A 5~7.5 A
Min. Output Current	0 A 0.1 A 0 A	0 A 0 A	0.1 A	0 A 0.1 A
Ripple & Noise	≤ 1 %	≤ 120 mVp-p ≤ 500 mVp-p	≤ 1 %	≤ 120 mVp-p ≤ 400 mVp-p
Hold Up Time	≥ 20 ms	≥ 20 ms	≥ 10 ms	≥ 10 ms
Input	Input Voltage: 90~264 Vac	Input Voltage: 90~264 Vac	Input Voltage: 90~264 Vac	Input Voltage: 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
Efficiency	≥ 87 %	≥ 87 %	≥ 90 %	≥ 90 %
Others	Operating Temperature: 0~+50 °C	Operating Temperature: -20~+70 °C	Operating Temperature: -20~+70 °C	Operating Temperature: -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




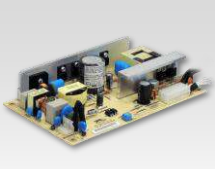
* Specifications are subject to change without notice

20211007






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 • 0.84" low profile size • Wide temp. 40~+70°C 	<ul style="list-style-type: none"> • IEC/EN/UL 62368-1 • 1+1 redundancy • Power ok signal 											
	Dual	Single	Single	Single											
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 (10CFM)				250 W (13CFM)				156 W (6CFM)			
	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				105~145 %				19 A	
	Min. Output Current	0 A		0 A		0.1 A				0 A				1 A	
Input	Ripple & Noise	≤ 120 mVp-p		≤ 200 mVp-p		≤ 1 %				≤ 1 %				≤ 1 %	
	Hold Up Time	≥ 25 ms		≥ 16 ms		≥ 10 ms				≥ 10 ms				≥ 10 ms	
Others	Input Voltage	90~264 Vac		90~264 Vac				90~264 Vac				85~264 Vac			
	Input Frequency	47~63 Hz		47~63 Hz				47~63 Hz				47~63 Hz			
	Power Factor	≥ 0.95		≥ 0.95				≥ 0.95				≥ 0.9			
	Efficiency	≥ 94 %		91.3% 94.2% 93.9% 93.9%				92.5% 93.5% 94.5% 94.5%				≥ 80 %			
Operating Temperature	-40~+75 °C		-20 ~+70 °C				-40~+70 °C				0~+50 °C				
Operating Humidity	10~90 %RH		20~90 %RH				20~90 %RH				10~90 %RH				
Operating Altitude	5,000 m		5,000 m				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				50.8 x 101.6 x 21.4 mm				101.6 x 177.8 x 32 mm				
MTBF	≥ 300,000 hours		≥ 500,000 hours				≥ 500,000 hours				≥ 400,000 hours				
Certifications	CB, TÜV, UL/cUL		CB, TÜV, UL/cUL				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 											
	Quad	Single	Single											
Model Name	TN16-0150-01				TN14-0130-12/24/27/57				TN19-0060-12/24/48					
Output	Rated Power	150 W (Fanless)				130 W (11.3CFM)				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%				
	Min. Output Current	0 A		0 A		0 A		0 A		0 A				
Input	Ripple & Noise	120 mVp-p		180mV	240mV	≤ 1 %				≤ 1 %				
	Hold Up Time	≥ 10 ms				≥ 10 ms				≥ 16 ms				
Others	Input Voltage	90~264 Vac				80~264 Vac				90~264 Vac				
	Input Frequency	47~63 Hz				47~63 Hz				47~63 Hz				
	Power Factor	≥ 0.9				---				---				
	Efficiency	≥ 85 %				88%	88%	89%	87%	≥ 87 %				
Operating Temperature	0~+60 °C				0~+70 °C				-20~+70 °C					
Operating Humidity	10~80 %RH				20~90 %RH				20~90 %RH					
Operating Altitude	5,000 m				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				50.8 x 101.6 x 27.0mm					
MTBF	≥ 200,000 hours				≥ 715,000 hours				≥ 100,000 hours					
Certifications	Meets CB, UL/cUL, CCC				CB, TÜV, UL/cUL				CB, TÜV, UL/cUL, BSMI					

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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	
	PoE			80 PLUS PLATINUM		PoE		80 PLUS PLATINUM	
	>>> Developing			>>> Developing					
	<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/0.5A auxiliary output 		<ul style="list-style-type: none"> • PMbus • N+1 redundancy • AFO(02)/AFI(03) 	
	Dual			Single		Dual		Dual	
Model Name	TG17-1600-01 TG17-1600-02			TG20-1100-01/02		TG17-1000-01		TG14-0950-02/03	
Output	Rated Power								
	1600 W								
	Output Voltage								
	12Vsb 12Vdc 54 Vdc			12 Vsb 12 Vdc		5 Vsb 48 Vdc		12 Vdc 56 Vdc	
	2.1 A 133 A 29.6 A			3 A 90 A		0.5 A 21 A		16.7 A 13.4 A	
	Max. Output Current			110~180 % 110~140 %		--- < 28 A		17.5~22.5A 14.0~18.1A	
Input	Over Current Limit								
	≤3~5A ≤153~166 ≤ 34~37 A			0.1 A 1 A		0 A 0 A		0 A	
	Min. Output Current								
	0.1 A 1 A 0 A			≤ 1 % & ≤ 2 %		≤ 4 % ≤ 1 %		≤ 1 %	
	Ripple & Noise								
	≥ 10 ms			≥ 10 ms		≥ 16 ms		≥ 8 ms	
Others	Hold Up Time								
	90~264 Vac			90~264 Vac		90~264 Vac		90~264 Vac	
	Input Voltage			47~63 Hz		47~63 Hz		47~63 Hz	
	Input Frequency			≥ 0.99		≥ 0.95		≥ 0.95	
	Power Factor			≥ 94 %		≥ 88 %		≥ 90 %	
	Efficiency			0~+50 °C		0~+50 °C		0~+50 °C	
Operating Temperature									
5~80 %RH			-20~+60 °C		10~90 %RH		20~80 %RH		
Operating Humidity									
5,000 m			5,000 m		5,000 m		5,000 m		
Operating Altitude									
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		
Dimension (W x L x H)									
≥ 100,000 hours			≥ 100,000 hours		≥ 300,000 hours		≥ 100,000 hours		
MTBF									
Meets CB, TÜV, UL/cUL			CB, TÜV, UL/cUL		CB, UL/cUL		cUL, CB, TÜV, CE		
Certifications									

Enclosed

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

	800 W		650W		270 W					250 W				
	CRPS PSU		Slim Type		Flex ATX PSU					TFX PSU				
	80 PLUS PLATINUM		80 PLUS PLATINUM		80 PLUS BRONZE					80 PLUS BRONZE				
	>>> Developing		>>> Developing											
	<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 				
	Dual		Dual		Penta					Penta				
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		5 Vsb 12 Vdc		3.3 V 5 V 5Vsb 12 V -12V					3.3 V 5Vsb 5 V 12 V -12V				
	2.1 A 65 A		3.0 A 52.9 A		10 A 12 A 2 A 16 A 0.3 A					10A 2 A 12 A 16 A 0.3 A				
	Max. Output Current		3.3~6 A 58.2~71.4 A		18 A 20 A - 20 A -					18 A - 20 A 20 A -				
Input	Over Current Limit													
	≤ 3~5 A ≤ 75~79 A		0 A		0.5 A 1 A 0 A 1 A 0 A					0.1 A 0 A 0.1 A 0.1 A 0 A				
	Min. Output Current													
	0 A		≤ 1 %		≤ 100mVp-p ≤ 200 mVp-p					≤ 80 mVp-p ≤ 160mVp-p				
	Ripple & Noise													
	≥ 11 ms		≥ 12 ms		≥ 17 ms					≥ 17 ms				
Hold Up Time														
90~264 Vac		90~264 Vac		90~264 Vac					90~264 Vac					
Input Voltage														
47~63 Hz		47~63 Hz		47~63 Hz					47~63 Hz					
Input Frequency														
≥ 0.99		≥ 0.98		≥ 0.9					≥ 0.9					
Power Factor														
≥ 94 %		≥ 94 %		≥ 85 %					≥ 85 %					
Efficiency														
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					


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► Adaptor

- 180W
- 75W
- 60/65W

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

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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