

### ► Open Frame

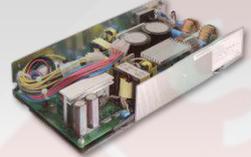
- 1000W
- 950W
- 850W
- 660W

1000 W	950 W	850 W	660 W
4"x8.3"	5"x10"	3.86"x8.27"	4"x7"
			
>>> Processing	>>> Processing	>>> Processing	>>> Processing
<ul style="list-style-type: none"> <li>• UL 62368-1</li> <li>• 1.28" low profile</li> <li>• Redundancy design</li> </ul>	<ul style="list-style-type: none"> <li>• UL 62368-1</li> <li>• Redundancy design</li> <li>• Active PFC</li> </ul>	<ul style="list-style-type: none"> <li>• PoE PSU</li> <li>• Redundancy design</li> <li>• Current share bus</li> </ul>	<ul style="list-style-type: none"> <li>• UL 62368-1</li> <li>• Redundancy design</li> <li>• Current share bus</li> </ul>

Model Name		TN19-1500-01	TN15-0950-02			TN17-0850-01		TN19-0660-01	
Output	Rated Power	1,000 W	950 W			850 W		660 W	
	Output Voltage	+55 Vdc	12 Vdc	54 Vdc	5 Vsb	12 Vdc	55 Vdc	54 Vdc	12 Vdc
	Max. Output Current	18.18 A	16.7 A	13.7 A	2.0 A	8.34 A	13.63 A	12 A	10 A
	Over Current Limit	20.0~23.6 A	22.5 A	17.8 A	---	9.1~12.5 A	14.0~18.1A	24 A	20 A
	Min. Output Current	0 A	0.1 A	0 A	0 A	0 A	0 A	0 A	0 A
	Ripple & Noise	1 %	1 %	1 %	1 %	1 %	1 %	1 %	1 %
Input	Hold Up Time	≥ 16 ms	≥ 16 ms			≥ 20 ms		≥ 20 ms	
	Input Voltage	90~264 Vac	90~264 Vac			90~140Vac, 180~264Vac		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	92 %	87 %			88 %		90 %	
	Operating Temperature	-20 ~+70 °C	0 ~+50 °C			0~+50 °C		-20 ~+70 °C	
	Operating Humidity	20~80 %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 32.5 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	≥ 100,000 hours	≥ 100,000 hours			≥ 100,000 hours		≥ 200,000 hours	
	Certifications	cUL, CB	cUL, CB, CE			cUL, TÜV, CB		cUL, CB, CE	

### ► Open Frame

- 610W
- 470W
- 300W
- 300/500W

610 W	470 W	300 W	300/500 W
5"x10"	4"x6"	3.15"x6.1"	3.68"x8.66"
			
>>> Processing	>>> Processing	>>> Processing	>>> Processing
<ul style="list-style-type: none"> <li>• UL 62368-1</li> <li>• Redundancy design</li> <li>• Active PFC</li> </ul>	<ul style="list-style-type: none"> <li>• UL 62368-1</li> <li>• Redundancy design</li> <li>• Current share bus</li> </ul>	<ul style="list-style-type: none"> <li>• IEEE 802.3af/at/bt PSE</li> <li>• Dual output</li> <li>• Active PFC</li> </ul>	<ul style="list-style-type: none"> <li>• 500W@25 CFM</li> <li>• UL 62368-1</li> <li>• Current share bus</li> </ul>

Model Name		TN14-0610-02			TN16-0450-01		TN13-0300-01		TN20-0300-01	
Output	Rated Power	610 W			470 W		300 W		300W@Fanless	
	Output Voltage	12 Vdc	54 Vdc	5 Vsb	12 Vdc	54 Vdc	12 Vdc	54 Vdc	12 Vdc	54 Vdc
	Max. Output Current	16.7 A	7.4 A	2.0 A	8.34 A	8.34 A	5.8 A	4.7 A	5 A	4.44 A
	Over Current Limit	22.5 A	9.7 A	---	≤ 15 A	≤ 12.5 A	12 A	5~7.5 A	5.5~8.3 A	4.88~7.38 A
	Min. Output Current	0.1 A	0 A	0 A	0.1 A	0.1 A	0 A	0.1 A	0 A	0 A
	Ripple & Noise	1 %	1 %	1 %	1 %	1 %	120 mVp-p	400 mVp-p	≤ 120 mV	≤ 200 mV
Input	Hold Up Time	≥ 20 ms			≥ 10 ms		≥ 10 ms		≥ 25 ms	≥ 16 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			0.95		0.95		0.95	
Others	Efficiency	87 %			90 %		90 %		94 %	
	Operating Temperature	0 ~+50 °C			-20 ~+70 °C		-10~+50 °C		-40~+75 °C	
	Operating Humidity	5~95 %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)	127 x 254 x 41.5 mm			101.6 x 152.4 x 33.8 mm		80 x 155 x 35.4 mm		93.4 x 220 x 40.5 mm	
	MTBF	≥ 300,000 hours			≥ 100,000 hours		≥ 100,000 hours		≥ 300,000 hours	
	Certifications	cUL, CB, CE			cUL, CB, BSMI, CCC		UL/cUL, TÜV, CB		cUL, TÜV, CB, CE	

\* Specifications are subject to change without notice

## Open Frame

- 250W 3"x5"
- 250W 2"x4"
- 150W
- 130W

250 W	250 W	150 W	130 W
3"x5"	2"x4"	7"x11"	2"x4"
<ul style="list-style-type: none"> <li>• UL 62368-1</li> <li>• Compact size</li> <li>• High power density</li> </ul>	<ul style="list-style-type: none"> <li>• UL 62368-1</li> <li>• 0.84" low profile</li> <li>• High power density</li> </ul>	<ul style="list-style-type: none"> <li>• UL 62368-1</li> <li>• 0.59" low profile</li> <li>• Display application</li> </ul>	<ul style="list-style-type: none"> <li>• UL 62368-1</li> <li>• 1.25" low profile</li> <li>• MTBF &gt; 715,000Hrs</li> </ul>

Model Name		TN17-0250-XX Series				TN19-0250-XX Series				TN16-0150-01				TN14-0130-XX Series			
Output	Rated Power	250 W								150 W				130 W			
	Output Voltage	12Vdc	24Vdc	48Vdc	55Vdc	12Vdc	24Vdc	48Vdc	55Vdc	5.15Vsb	5.1V	12V	24V	12Vdc	24Vdc	27Vdc	57Vdc
	Max. Output Current	20.8 A	10.4 A	5.2 A	4.5 A	20.8 A	10.4 A	5.20 A	4.54 A	2 A	4 A	3.5 A	3.2 A	10.9 A	5.4 A	4.8 A	2.3 A
	Over Current Limit	27 A	14 A	7 A	6 A	105~145%				5 A	8 A	17.5 A	12.8 A	110~160%			
	Min. Output Current	0.1 A	0.1 A	0.1 A	0.1 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A
	Ripple & Noise	1 %	1 %	1 %	1 %	1 %	1 %	1 %	1 %	120mV	120mV	180mV	240mV	1 %	1 %	1 %	1 %
Input	Hold Up Time	≥ 10 ms								≥ 10 ms				≥ 10 ms			
	Input Voltage	90~264 Vac								90~264 Vac				80~264 Vac			
	Input Frequency	47~63 Hz								47~63 Hz				47~63 Hz			
	Power Factor	0.95								0.95				0.9			
Others	Efficiency	91.3%	94.2%	93.9%	93.9%	92.5%	93.5%	94.5%	94.5%	85 %				88%	88%	89%	87%
	Operating Temperature	-20 ~ +70 °C								-40 ~ +70 °C				0 ~ +60 °C			
	Operating Humidity	20~90 %RH								20~90 %RH				10~80 %RH			
	Operating Altitude	5,000 m								5,000 m				5,000 m			
	Dimension (W x L x H)	76.2 x 127 x 33.4 mm								50.8 x 101.6 x 21.4 mm				180 x 283 x 15mm			
	MTBF	≥ 500,000 hours								≥ 500,000 hours				≥ 200,000 hours			
	Certifications	cUL, TÜV, CB								cUL, TÜV, CB				cUL, CB, CCC			

## Open Frame

- 60W

**60 W**

2"x4"

- UL 62368-1
- Compact size
- Natural air convection

Model Name		TN19-0060-XX Series		
Output	Rated Power	60 W		
	Output Voltage	12 Vdc	24 Vdc	48 Vdc
	Max. Output Current	5.0 A	2.5 A	1.25 A
	Over Current Limit	10 A	5 A	3 A
	Min. Output Current	0 A	0 A	0 A
	Ripple & Noise	1 %	1 %	1 %
Input	Hold Up Time	≥ 16ms		
	Input Voltage	90~264 Vac		
	Input Frequency	47~63 Hz		
	Power Factor	---		
Others	Efficiency	87 %		
	Operating Temperature	-20 ~ +70 °C		
	Operating Humidity	20~90 %RH		
	Operating Altitude	5,000 m		
	Dimension (W x L x H)	50.8 x 101.6 x 27.0mm		
	MTBF	≥ 100,000 hours		
Certifications	cUL, TÜV, CB			

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### Enclosed

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

1600 W	1100 W	1010 W	950 W
CRPS PSU	Slim Type	Industrial Level	PoE IEEE 802.3af/at/bt
			
<ul style="list-style-type: none"> <li>• PMbus, Black Box, FRU</li> <li>• Cold redundancy</li> <li>• Super low noise</li> </ul>	<ul style="list-style-type: none"> <li>• UL 62368-1</li> <li>• Cold redundancy</li> <li>• Intelligent fan control</li> </ul>	<ul style="list-style-type: none"> <li>• UL 62368-1</li> <li>• Remote power control</li> <li>• Power ok signal</li> </ul>	<ul style="list-style-type: none"> <li>• Redundancy design</li> <li>• Current share bus</li> <li>• AFO(02)/AFI(03)</li> </ul>

Model Name		TG17-1600-01		TG17-1600-02		TG20-1100-01				TG20-1100-02		TG17-1000-01		TG14-0950-02/03	
Output	Rated Power	1600 W				1100 W				1010 W		950 W			
	Output Voltage	12Vdc	12Vsb	54 Vdc		12Vdc	12Vsb	12Vdc	5Vsb	+48 Vdc	+5 Vsb	+12 Vdc	+56 Vdc		
	Max. Output Current	133 A	2.1 A	29.6 A		90 A	2.1 A	90 A	4.0 A	21 A	0.5 A	16.7 A	13.4 A		
	Over Current Limit	≤153~166	≤3~5A	≤34~37 A		110~140%	110~180%	110~140%	110~180%	< 28A	---	17.5~22.5A	14.0~18.1A		
	Min. Output Current	1 A	0.1 A	0 A		1 A	0.1 A	1 A	0.1 A	0 A	0 A	0 A	0 A		
Ripple & Noise	2 %				2 %				1 %		4 %		1 %		
Hold Up Time	≥ 10 ms				≥ 10 ms				≥ 16 ms		≥ 8 ms				
Input	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			
	Efficiency	94 %				94 %				88 %		90 %			
Others	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	cUL, TÜV, CE, CQC, BSMI, VDE				UL/cUL, CB, TÜV, CE				cUL, CB		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"> <li>• PMbus, Black Box, FRU</li> <li>• Redundancy design</li> <li>• Super low noise</li> </ul>	<ul style="list-style-type: none"> <li>• UL 62368-1</li> <li>• Redundancy design</li> <li>• Intelligent fan control</li> </ul>	<ul style="list-style-type: none"> <li>• 1U industrial level</li> <li>• Active PFC</li> <li>• Dual ball-bearing fans</li> </ul>	<ul style="list-style-type: none"> <li>• UL 62368-1</li> <li>• Low EMI (17dB margin)</li> <li>• Dual ball-bearing fans</li> </ul>

Model Name		TG17-0800-01		TG15-0650-01		TG13-0270-01					TG18-0250-01				
Output	Rated Power	800 W		650 W		270W@25°C, 230W@50°C					250 W				
	Output Voltage	+12 Vdc	+12 Vsb	+12 Vdc	+5 Vsb	5Vdc	3.3V	12V	-12 V	5Vsb	5Vdc	3.3V	12V	-12 V	5Vsb
	Max. Output Current	65 A	2.1 A	52.9 A	3.0 A	12 A	10 A	16 A	0.3 A	2 A	12 A	10 A	16 A	0.3 A	2 A
	Over Current Limit	≤ 75~79 A	≤ 3~5 A	58.2~71.4 A	3.3~6 A	20 A	18 A	20 A	-	-	20 A	18 A	20 A	-	-
	Min. Output Current	0 A	0 A	0 A	0 A	1A	0.5 A	1 A	0 A	0 A	0.1 A	0.1 A	0.1 A	0 A	0 A
Ripple & Noise	120 mV	120 mV	1 %	1 %	100mV	100mV	200mV	200mV	200mV	80mV	80mV	160mV	160mV	80mV	
Hold Up Time	≥ 11 ms		≥ 12 ms		≥ 17 ms					≥ 17 ms					
Input	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				
	Efficiency	94 %		94 %		85 %					85 %				
Others	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		5,000 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	UL, CB, TÜV, CE, CCC, BIS		cUL, CB, CE, CCC, TÜV		cUL, CB, CE, FCC					cUL, CB, CE, FCC				

\* Specifications are subject to change without notice

## ► Enclosed

■ 110W

**110 W**

All in One



- Low EMI (16dB margin)
- Natural air convection
- For boat application

Model Name		TG14-0135-01
Output	Rated Power	110 W
	Output Voltage	24 Vdc
	Max. Output Current	4.6 A
	Over Current Limit	9 A
	Min. Output Current	0.1 A
	Ripple & Noise	300 mVp-p
Input	Hold Up Time	≥ 10 ms
	Input Voltage	90~264 Vac
	Input Frequency	47~63 Hz
	Power Factor	0.9
Others	Efficiency	85 %
	Operating Temperature	-20~+55 °C
	Operating Humidity	20~90 %RH
	Operating Altitude	5,000 m
	Dimension (W x L x H)	100 x 207 x 40 mm
	MTBF	≥ 100,000 hours
Certifications		cUL, CB, CE, FCC, CCC

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## ► 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"> <li>• IEC/EN 61558</li> <li>• Meets ENERGY STAR®</li> <li>• Output plug changeable</li> </ul>	<ul style="list-style-type: none"> <li>• UL 62368-1</li> <li>• Meets ENERGY STAR®</li> <li>• Output plug changeable</li> </ul>	<ul style="list-style-type: none"> <li>• UL 62368-1</li> <li>• Meets ENERGY STAR®</li> <li>• Output plug changeable</li> </ul>

Model Name		TG16-0180-01	TG-7601-ES	TG15-0065-XX Series	
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 mV	300 mV
Input	Hold Up Time	≥ 8 ms	≥ 10 ms	≥ 8ms	
	Input Voltage	90~264 Vac	90~264 Vac	90~264 Vac	
	Input Frequency	47~63 Hz	47~63 Hz	47~63 Hz	
	Power Factor	---	---	---	
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	≥ 100,000 hours	≥ 100,000 hours	≥ 100,000 hours	
	Certifications	CB, CE, FCC	cUL, CB, CE, FCC, CCC, LPS, GS	cUL, CB, CE, FCC, CCC, LPS, GS	

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