

# TP3SS SERIES

## Power Supply Specification

### KEY FEATURES

TP3SS series unit is a distribution panel with a combination of AC-DC converter/charger to convert 120VAC into 13.75VDC, DC divider and AC circuit breakers.

- Build-in AC-DC converter (SRV switching power supply)
- Build-in 15-circuit DC divider with fuse holder
- Build-in special DC charging terminal
- Five branches selectable by users with AC circuit breakers
- Over current protection, Short-circuit protection
- Forced air cooling and overheat protection
- Three charging: BULK, NORMAL, FLOAT
- Easy to mount
- High reliability, MTBF>100,000 hrs
- Metal case, L - shaped



### Safety Standards



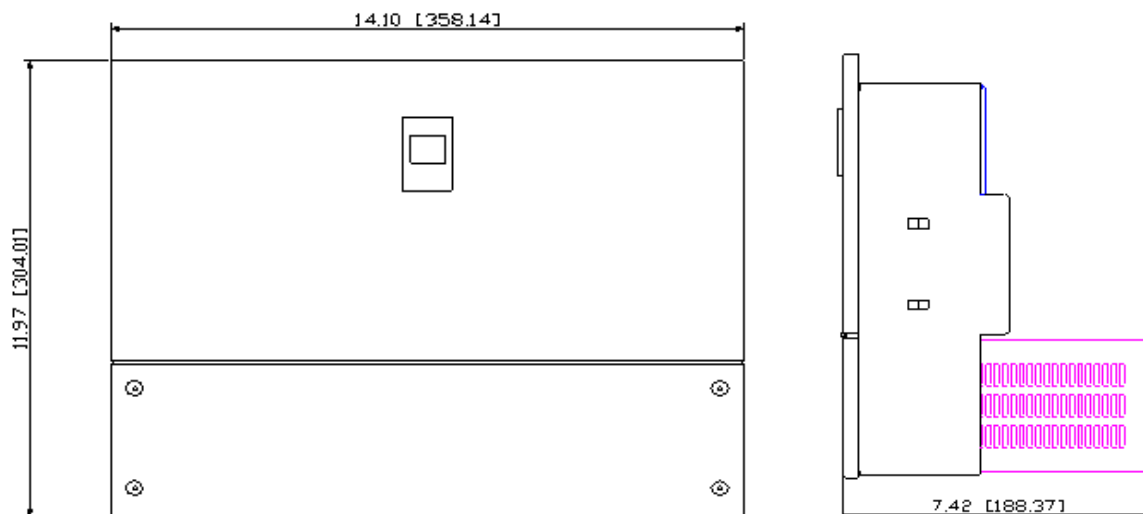
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### SPECIFICATION

Model	Output Voltage	Output Power	Output Current	Input Current	Output Ripple Noise
<b>TP3SS-32</b>	13.75 VDC	440W	32A	6A	300mV
<b>TP3SS-45</b>	13.75 VDC	620W	45A	8A	300mV
<b>TP3SS-55</b>	13.75 VDC	760W	55A	9A	300mV
<b>TP3SS-60</b>	13.75 VDC	825W	60A	10A	300mV
<b>TP3SS-75</b>	13.75 VDC	1030W	75A	13A	300mV
<b>INPUT CHARACTERISTICS</b>					
AC Input Voltage	Rating	120 Vac			
	Range	105-130 Vac			
AC Input Current	See table above				
Inrush Current	<75A @120Vac				
Power Factor	N/A				
<b>OUTPUT CHARACTERISTICS</b>					
Output Voltage	13.75 Vdc				
Output Voltage Range	13.2-14.4 Vdc				
Output Power	See table above				
Efficiency	Typical values 80% @ 120 Vac				
Hold-Up Time	20ms @110Vac				
Startup Time	1000mS Max				
Load Regulation	1%Vdc				
Line Regulation	0.5%Vdc				
Three Charging	BULK, NORMAL, FLOAT				
Over Load Protection	105-120%, Auto resetting				
Short Circuit Protection	Continuous, Auto resetting				

Over Voltage Protection	115-125%, Auto resetting
Overtemp Protection	Auto resetting
Hi-pot	I/P-O/P:1.5KVac,I/P-FG:500Vac,O/P-FG:500Vac
<b>ENVIRONMENTAL REQUIREMENTS</b>	
Operating Temperature	0°C-47°C
Storage & Shipping	-25°C -85°C
Power De-rating	10 - 90% RH, non condensing
Operating Humidity	5 - 95% RH non condensing
Storage Humidity	Internal fan
Cooling	IEC 68-2-6
Vibration	IEC 68-2-27
<b>SAFETY &amp; EMC REQUIREMENTS</b>	
Safety Approvals	UL 458
EMC/Emissions	FCC15,A
RoHS Compliance	Compliant to EU Directive 2002/95/EC
<b>OTHERS</b>	
Reliability	100,000hrs at MIL HDBK 217F, 25°C
Pollution Standard	EN50178 Class 2
Warranty	3 Years
Size (WxDxH)	304mm (11.97") * 358mm (14.10") * 188mm (7.42")
Weight	6.9-7.6 kg
<b>CONNECTORS</b>	
Input AC	J1 : (Pin1) L, (Pin2) N, (Pin3) Ground,
Output DC	J2 : (Pin1) V-, (Pin2-16) V+,
Output DC Charging	J3 : (Pin1) V-, (Pin2) V+,
AC Output	Five branches selectable by users with AC circuit breakers

## MECHANICAL REQUIREMENTS



### Note:

- All parameters are specified at 120Vac, 25°C ambient and after a 5 min run-in time, unless otherwise noted.
- We reserve the right to make changes in the product at any time, without prior notification.
- This table is a simplified version of the specification (REV: -J), if necessary, request the original specifications.

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