

## Quick Lookup - AC Input Product

AC Input Power Supplies																				
Switching Power Supplies AC - DC Single Output			Amp Ratings										Input Power							
			Max available in SMPS series																	
Watts	Series	volts	Amp Ratings										Avail. Ratings							
			250	110	48	36	28	24	15	12	5	3.3	AC			DC				
600	T1U	amps			12.5		21	25	40	50										
400 - 1000	TCP	amps			20	16		41	40	50	100	120	Y	Y						
1200 - 1500	TCP - 1.2K - 1.5K	amps			32			62	100	125			Y	Y						
400 - 1000	PTCP	amps			20	16		41	40	50	100	120			Y					
600 - 1200	NTCP-1K	amps			24	19		49	40	50	100	120			Y					
600 - 1500	NTCP-1.5K	amps			30	24		60	60	75	150	150	Y	Y						
1000 - 3000	NTDM	amps		27	62		107	125	100	125	300		Y	Y						
1000 - 4000	NNTDM	amps			62			125						Y						
2000	T2KOS	amps	9		42		80	80	145	145	270	270		Y						
5000	TRU	amps	18 @ 270 VDC	40 @ 120 VDC	100		175							Y						
10000	HPRM	amps	40	83	200		350							Y						

Switching Power Supplies AC - DC Multiple Output			Amp Ratings										Input Power								
			Max available in SMPS series																		
Watts	Series	volts	Amp Ratings										Avail. Ratings								
			250	110	48	36	28	24	15	12	5	3.3	AC			DC					
150 - 600	LTBC Primary output	amps			12		20	24		40	60		Y								
	LTBC Secondary output (4)	amps			1			3	6	3	6										
600 - 1000	TDL Primary output	amps			22		36	42		50	60		Y	Y							
	TDL Secondary output (6)	amps						4.5	7	8	10										
10000	HPRM Primary Output	amps	40	83	200		350														
	Secondary Output (4)	amps	Contact TDI to discuss specific requirements																		

NOTE for all Multiple output product: See specific data sheets for combinations of secondary outputs as well as availability of +/- secondary outputs.

General Specs - AC - DC Switch Mode Power Supplies	
Input Voltage	100-132 / 180-264 VAC 47-63 Hz Single Phase 115 / 208 VAC 47 - 63 Hz Single Phase
Regulation	Line +/- .2% Load +/- 1%
Ripple	1% p-p not to exceed 150mv p-p
Efficiency	80% typical single output units 75% typical multiple output units
Protections	OV, OL, OT
Operating Temperature	0 to 50 deg C standard -30 to +65 deg C optional
Storage Temperature	-40 to 85 deg C
Cooling	By Internal Fans
MTBF	in excess of 100K hours

## Quick Lookup - DC Input, & AC & DC Input Product

DC Input Converters																	
Converters DC - DC Single Output			Amp Ratings Max available in SMPS series										Input Power				
Watts	Series	volts	250	110	48	36	28	24	15	12	5	3.3	Avail. Ratings				
			AC			DC											
			115	230	Univ / Auto	24	48	125									
400 - 600	T1UDC	amps			12.5		21	25	40	50							
400 - 1000	TCPDC	amps			20	16		41	40	50	100	120			Y	Y	
1200 - 1500	TCPDC-1.2K - 1.5K	amps			31	41	53	62	100	125							
400 - 1000	PTCPDC	amps			20	16		41	40	50	100	120					Y

DC Input Converters																	
Converters DC - DC Multiple Output			Amp Ratings Max available in SMPS series										Input Power				
Watts	Series	volts	250	110	48	36	28	24	15	12	5	3.3	Avail. Ratings				
			AC			DC											
			115	230	Univ / Auto	24	48	125									
150 - 600	LTBCDC Primary output	amps			12		20	24		40	60				Y	Y	
	LTBCDC Secondary output (4)	amps			1			3	6	3	6						
600 - 1000	TDLDC Primary output	amps			22		36	42		50	60					Y	Y
	TDLDC Secondary output (6)	amps						4.5	7	8	10						

General Specs - DC - DC Switch Mode Power Supplies	
Input Voltage	22-32 VDC / 42-56 VDC
Regulation	Line +/- .3% Load +/- 1%
Ripple	1% p-p not to exceed 150mv p-p
Efficiency	80% typical single output units 75% typical multiple output units
Protections	OV, OL, OT
Operating Temperature	0 to 50 deg C standard -30 to +65 deg C optional
Storage Temperature	-40 to 85 deg C
Cooling	By Internal Fans
MTBF	in excess of 100K hours

AC & DC Input Power Supplies																	
Switching Power Supplies AC & DC Input			Amp Ratings Max available in SMPS series										Input Power				
Watts	Series	volts	250	110	48	36	28	24	15	12	5	3.3	Avail. Ratings				
			AC			DC											
			115	230	Univ / Auto	24	48	125									
5000	TRU	amps	18 @ 270 VDC	40 @ 120 VDC	100		175							Y		Y	

**Quick Lookup - Specialty Items / Options**

Hot Swap												
Hot Swap Power Supplies w/ Battery Backup Single Output		Ratings									19" RACK HEIGHT IN "U"	
Watts	Series	Max # Power Supply modules per rack									Height in "U" (U = 1.75")	Depth
		2	3	4	6							
1200 - 1800	T1U-HS		X								1	14"
1200 - 1800	T1UDC-HS		X								1	14"
1200 - 3000	TCP-HS		X								2	19.7"
1200 - 3000	TCPDC-HS		X								2	19.7"
1200 - 3000	PTCP-HS		X								2	19.7"
1800 - 3600	NTCP-1K-HS		X								2	19.7"
1800 - 4500	NTCP-1.5K-HS		X								2	19.7"
3000 - 6000	NTDM-HS	X									3	18"
3000 - 12000	NTDM-4HS			X							7	18"
6000 - 18000	NTDM-6HS				X						10	18"
3000 - 8000	NNTDM-HS	X									3	18"
6000 - 16000	NNTDM-4HS			X							7	18"
9000 - 24000	NNTDM-6HS				X						10	18"

See individual data sheets for amp rating capability per module.  
 Custom rack configurations are available with multiple outputs within the same rack and / or wattage ratings to 60KW

DC UPS																		
DC-UPS Power Supplies w/ Battery Backup Single Output			Amp Ratings									Input Power						
Watts	Series	volts	Max available in SMPS series									Avail. Ratings						
			250	110	48	36	28	24	15	12	5	3.3	AC			DC		
400 - 1000	TCPRK-BBU	amps			12	16		41		50			115	230	Univ / Auto	24	48	125
400 - 1000	PTCPRK-BBU	amps			12	16		41		50			Y	Y				Y

Options	Description	Suffix
Power Factor Correction	Harmonic Distortion corrected to 99%	-PFC
Auto Line Select	Unit accepts 90 - 132 / 128 - 264 VAC input automatically	-ALS
Three Phase Input	Input power for high power output units	-3P
400 Hz Operation	Input power source for airborne / shipboard applications	-400Hz
Low Voltage Battery Disconnect	Electronic device disconnects the battery, protecting it from damaging discharge levels	-LVBD -PAR
Parallel Operation	Multiple units operating together for increased power output	-ORD
Ruggedized / Militarized	Multiple units operating together for redundant power power output	-MIL
Hot Swap	Blind insertion of active units	-HS
Rack Mount	Power supplies mounted in rack drawer	-RK
Meters	Voltage / Current meter(s) indication of input and output levels	-MTR
Circuit Breaker	On / Off of the input or output	-CB
Wide Temperature Operation	operation from -30 to +65 deg. C	-WTO
Conformal Coating	Internal components coated with humiseal to protect against moisture	-CC
input / Output Cover	Input and Output terminal finger protection	-IOC
Reverse Air Flow	Air movement in the opposite direction (rear to front)	-RAF
Input Line Cord	Line cord connected to the input of the power supply	-ILC
Terminal Block Input	Input connection via a terminal block (instead of studs)	-TBI
Panel Mount	Power supply mounted to a panel	-PNL
Handle	Handle on Power Supply for insertion / removal and handling	-HDL
Chassis Slides	Attached to rack mounted supply to ease insertion and removal	-CS
Battery Back-up	Power supply and batteries as a fully redundant system	-BBU