

MAX Series

1600-3200 WATTS - AC/DC MODULAR OUTPUT

FEATURES

- Flexible modular system architecture provides various output configurations.
- Harmonic attenuator (Complies with IEC61000-3-2) MAX1600F.
- Universal input (85-264Vac).
- Parallel operation.
- Remote on/off control, alarm.



SPECIFICATIONS

INPUT	
Input voltage	Universal mains input. MAX1600F: 85-264Vac 1Ø or 120-350Vdc. MAX1600T: 170-264Vac 3Ø. MAX3200T: 170-264Vac 3Ø.
Frequency	50/60Hz (47-63Hz).
Inrush current	40A typical at 200Vac.
Isolation	In/Out 3kVac, 1min In/Gnd 2kVac, 1min Out/Gnd 500Vac.
OUTPUT	
Output voltage	See table.
Voltage adjustment	See table.
Output current	See table.
Output power (110 / 230Vin 1Ø) (230Vin 3Ø)	See table for individual modules. MAX1600F: 1500W / 1600W MAX1600T: 1600W MAX3200T: 3200W
Number of slots	MAX1600F: 4 MAX1600T: 4 MAX3200T: 8
Ripple & noise	See table.
Line regulation	See table.
Load regulation	See table.
Over voltage protection	See table.
Over current protection	Over 105% min. of rated current.
Startup time	500ms max.
Holdup time	20ms typical.
Efficiency	82%-85% typical.

ENVIRONMENTAL	
Operating temperature	-20°C to 65 °C (Refer to derating curve). Consult Powerbox office
Humidity	20 – 90% RH Non-Condensing.
Vibration	19.6m/s ² 10Hz-55Hz 3 minutes x, y and z axes.
Impact	196.1m/s ² (11ms), once along x, y and z axes.
STANDARDS	
Safety standards	EN60950-1, EN50178, UL60950-1 and C-UL IEC60950 and DEN-AN (AC input only).
CE marking	Complies with LVD and EMC Directives.
C Tick	AS/NZS CISPR11 Group 1, Class A
EMI standards	MAX1600F: EN55022-B, VCCI-B MAX1600T: FCC-A, CISPR22-A, EN55011-A, VCCI-A. MAX3200T: FCC-A, CISPR22-A, EN55011-A, VCCI-A.
Input harmonics	MAX1600F: Complies with IEC61000-3-2.
MECHANICAL	
Dimensions	MAX1600F: 200x97x300mm (WxHxD). MAX1600T: 200x97x300mm (WxHxD). MAX3200T: 340x97x300mm (WxHxD).
Weight	MAX1600F: 7kg max. MAX1600T: 7kg max. MAX3200T: 14kg max.

OPEN FRAME & ENCLOSED

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ITEM	CODE	A	B	C	D	E	F	G	H	I	O
Number of slots used		1	1	1	1	1	1	1	1	1	1
Voltage(V)		2	3.3	5	7.5	12	15	18	24	28	
Current(A)		80	80	80	54	34	27	22	17	14.5	
Line regulation(mV)max		20	20	20	30	48	60	72	96	112	
Load regulation(mV)max ⁵		40	40	40	60	100	120	120	150	180	
Ripple (mVp-p)max	0 to +50 °C ²	80	80	80	120	120	120	120	120	120	
	-20 to 0 °C ²	140	140	140	160	160	160	160	160	160	
Ripple Noise (mVp-p)max	0 to +50 °C ²	120	120	120	150	150	150	150	150	150	
	-20 to 0 °C ²	160	160	160	180	180	180	180	180	180	
Temperature Coefficient. (mV)max	0 to +50 °C	40	40	50	75	120	150	180	240	280	
	-10 to +50 °C	60	60	75	120	180	225	270	360	420	
Drift (mV)max ⁶		12	12	20	30	48	60	72	96	112	
Output voltage setting(V)		2.00-2.06	3.30-3.40	5.00-5.15	7.50-7.80	12.0-12.5	15.0-15.6	18.0-18.7	24.0-24.9	28.0-29.1	
Output voltage adjustment range(V) ⁴		1.98-2.20	2.64-3.63	4.00-5.50	6.00-8.25	9.60-13.2	12.0-16.5	14.4-19.8	19.2-26.4	22.4-30.8	
Overcurrent protection(A)	Works over 105% min of rated current or 101% min of peak current. Automatic recovery										
Overvoltage protection(V)		4.00-5.50	4.00-5.50	5.75-7.00	8.63-10.50	13.8-16.8	17.25-21.0	20.7-25.2	27.6-33.6	32.2-39.2	
Output Current in Parallel (A)	Two Modules in Parallel	144	144	144	97	61	49	40	31	26	-
	Three Modules in Parallel	216	216	216	146	92	73	60	46	40	-
	Four Modules in Parallel	300	300	300	195	125	100	80	63	54	-
	Five Modules in Parallel	360	360	360	243	153	122	100	77	66	-
	Six Modules in Parallel	444	444	444	292	196	149	120	92	80	-
	Seven Modules in Parallel	516	516	516	341	217	173	140	107	94	-
	Eight Modules in Parallel	600	600	600	390	250	200	160	127	108	-

Blank Panel