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#1 in High Power Switching Supplies

HOW TO USE THIS CATALOGUE:

Pioneer's Legacy Catalogue is designed for your ease of use. If you don't know the exact power supply you need for your requirements, turn to the **Selection Guides**. They will provide you with an overall view of the full range of Pioneer Legacy switching power supplies as well as direct you to the location in the catalogue of the Series that will meet your needs. Each data sheet is self-contained, providing both specifications and drawings. Available options, special configurations and drawings. Available options, special configurations, etc. follow as separate sections in the catalogue.

Need More Information?

A sheet of reply cards is available in the catalog packet.

Action Now?

Call Toll Free 800/269-6426
Main Number 310/829-6751

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PIONEER MAGNETICS, INC.

#1 in High Power Switching

OUR #1 RESPONSIBILITY

We became #1 by streamlining high-power switching technology and revamping design and manufacturing techniques. Our engineers replaced the bulky, linear-type supplies found in commercial industry with compact switchers only 1/5th the size and weight. We established the industry standard 5" X 8" X 11" case – and the industry standard for price and performance. Over the years, Pioneer innovations earned us more than 60 U.S. and foreign patents and more high-power experience than any of our competitors. Today, our responsibility to you is to stay #1 by offering you performance, reliability and design excellence second to none.

Engineers: Why Pioneer Should Be Your #1 Choice

Pioneer should be your #1 choice because nobody spends more on engineering or offers you more engineering assistance.

Working With You

Pioneer's project and design engineers are experts at taking your unique legacy system requirements and delivering a unit that meets the specs under every condition – reliably, economically and on time.

Starting with your legacy system needs, we will review your total power requirements. We will discuss safety features, monitoring requirements and output configurations. We will update you on the latest available engineering enhancements to improve system performance. If there is something that can be wisely integrated, you will have that option.

We will also offer alternative PMI products should this be a requirement.



Supplies



Assuring you quality

At Pioneer, engineering works closely with manufacturing throughout the entire process. The project engineer reviews all product testing. All testing is performed in-house, from establishing AQL's on incoming material, to 100% testing of the finished product. Automated test equipment, much of it designed by Pioneer, measures the significant parameters of every unit in a final, recorded acceptance test. A minimum 48-hour, fully-loaded temperature cycling burn-in is performed on all supplies. Pioneer products are certified to meet International standards as well as UL, CSA and FCC.

Welcoming you

Pioneer Magnetics' corporate offices and manufacturing facilities occupy a 50,000 square foot complex in Santa Monica, California, just twenty minutes from Los Angeles International Airport. We welcome guests and are proud to introduce our people and demonstrate the engineering and production expertise that have proven themselves for over a quarter of a century and in more than 300,000 units of high technology products.



Selection Guide AC/DC

INTERNATIONAL LINE—SINGLE OUTPUT

Max 5V Output Power (Watts)	Output Current (Amps)									Model Number	Pg. No.
	@ 2 Volts	@ 3 Volts	@ 5 Volts	@ 12 Volts	@ 15 Volts	@ 18 Volts	@ 24 Volts	@ 28 Volts	@ 48 Volts		
250	100	60	50	21	17	—	10	9	5	PM 2920A	7
350	125	100	70	30	25	—	16	13	8	PM 2921A	7
500	200	150	100	42	33	—	21	18	10	PM 2922A	7
625	—	175	125	52	42	—	26	22	13	PM 2923A	7
750	—	200	150	60	50	—	33	27	16	PM 2924A	7
850	—	—	170	71	57	—	35	30	18	PM 2925A	7
1000	—	—	200	85	70	—	40	36	20	PM 2926A	7
1500	300	300	300	120	100	85	60	55	32	PM 2501B	11

INTERNATIONAL LINE—MULTIPLE OUTPUT 2-5 CHANNELS

Max Total Output Power (Watts)	Main Channel VDC Avail: 2, 3, 5, 12, 24, 28, 48		Channels 2, 3, 4 Max Output Current (Amps) VDC Avail: 2, 3, 5, 12, 15, 24, 28, 30			Channels 2, 3, 4 Max Output Current (Amps) VDC Avail: 36, 48			Model Number	Pg. No.
	Max 5V Power (Watts)	Max Current @ 5V (Amps)	Low Current	Standard	High Current	Low Current	Standard	High Current		
250	200	40	6	12	15	3	6	7.5	PM 2970A	15
375	300	60	6	12	15	3	6	7.5	PM 2971A	15
500	400	80	6	12	15	3	6	7.5	PM 2972A	15
625	500	100	6	12	15	3	6	7.5	PM 2973A	15
750	600	120	6	12	15	3	6	7.5	PM 2974A	15
850	750	150	6	12	15	3	6	7.5	PM 2975A	15
1000	750	150	6	12	15	3	6	7.5	PM 2976A	15
1250	900	180	6	12	15	3	6	7.5	PM 2977A	15

“DEPENDABLES”—SINGLE OUTPUT

Max 5V Output Power (Watts)	Output Current (Amps)										Model Number	Pg. No.
	@ 2 Volts	@ 3 Volts	@ 5 Volts	@ 12 Volts	@ 15 Volts	@ 18 Volts	@ 24 Volts	@ 28 Volts	@ 48 Volts	@ 60 Volts		
300	100	60	60	30	25	—	16	13	8	*	PM 2496A	19
500	—	—	100	—	—	—	—	—	—	—	PM 2497A	19
600	—	—	120	—	—	—	—	—	—	—	PM 2497A	19
750	200	100	150	60	50	—	33	27	16	*	PM 2497A	19
1000	250	250	200	85	70	—	40	36	20	*	PM 2500A	19
1500	300	300	300	120	100	86	60	55	32	*	PM 2501A	23
2250	500	450	400	180	150	—	90	80	47	*	PM 2502	19

*Consult Factory

Model PM2501A is Obsolete - Replaced by PM2501B

“DEPENDABLES”—MULTIPLE OUTPUT 2-5 CHANNELS

Max Total Output Power (Watts)	Main Channel VDC Avail: 2, 3, 5, 12, 15, 18, 24, 28, 48		Channels 2, 3, 4 Max Output Current (Amps)				Model Number	Pg. No.
	Max 5V Power (Watts)	Max Current @ 5V (Amps)	VDC Avail: 2, 3, 5, 12, 15		VDC Avail: 18, 21, 24, 28			
			Med. Current	High Current	Med. Current	High Current		
375	250	50	12	15	6	7.5	PM 2675A	27
600	500	100	12	15	6	7.5	PM 2676A	27
750	600	120	12	15	6	7.5	PM 2677A	27
850	750	150	12	15	6	7.5	PM 2678A	27

Selection Guide DC/DC

THESE SELECTION GUIDES ENCOMPASS THE STANDARD PRODUCT LINE OF SINGLE AND MULTIPLE OUTPUT SWITCHERS AND CONVERTERS ENCASED IN THE INDUSTRY STANDARD 5" x 8" x 11" ENVELOPE.

Using the guides

These Guides are organized to lead your eye from the desired power output across the chart to the page in the Catalog where the appropriate Series data sheet can be found. For any further assistance, please call Pioneer Magnetics.

Certification

The AC-DC units of the *International* Series are certified to the safety standards and are designed to meet the EMI/EMC specifications listed on Page 6 of this Catalog. They will allow you to ship your product for use anywhere in the world.

The "Dependables" Series combine power with economy while meeting both CSA and UL standards.

Detailed specification approvals for each Series will also appear in the appropriate data sheet for that Series.

Options

Options are listed on the data sheet of each individual Series, as well as overviewed on the Option Chart appearing on Page 47 of the Catalog. A full explanation of all options will be found on Pages 48-51.

INTERNATIONAL LINE—SINGLE OUTPUT

Max 5V Output Power (Watts)	Output Current (Amps)								Model Number	Pg. No.
	@ 2 Volts	@ 3 Volts	@ 5 Volts	@ 12 Volts	@ 15 Volts	@ 24 Volts	@ 28 Volts	@ 48 Volts		
750	200	200	150	60	50	33	27	16	PM 3024	31
850	—	—	170	71	57	35	30	18	PM 3025	31
1000	—	—	200	85	70	40	36	30	PM 3026	31

INTERNATIONAL LINE—MULTIPLE OUTPUT 2-5 CHANNELS

Max Total Output Power (Watts)	Main Channel VDC Avail: 2, 3, 5, 12, 15, 24, 48		Channels 2, 3, 4 Max Output Current (Amps)						Model Number	Pg. No.
	Max 5V Power (Watts)	Max Current @ 5 V (Amps)	VDC Avail: 2, 3, 5, 12, 15, 24, 28, 30			VDC Avail: 36, 48				
			Low Current	Std. Current	High Current	Low Current	Std. Current	High Current		
750	600	120	6	12	15	3	6	7.5	PM 3074	35
850	750	150	6	12	15	3	6	7.5	PM 3075	35
1000	750	150	6	12	15	3	6	7.5	PM 3076	35

"DEPENDABLES"—SINGLE OUTPUT

Max 5V Output Power (Watts)	Output Current (Amps)										Model Number	Pg. No.
	@ 2 Volts	@ 3 Volts	@ 5 Volts	@ 12 Volts	@ 15 Volts	@ 18 Volts	@ 24 Volts	@ 28 Volts	@ 48 Volts	@ 60 Volts		
375	100	100	75	30	25	22	16	13	8	6	PM 2721A	39
500	—	100	—	—	—	—	—	—	—	—	PM 2722A	39
600	—	120	—	—	—	—	—	—	—	—	PM 2722A	39
750	200	200	150	60	50	45	33	27	16	12	PM 2722A	39

"DEPENDABLES"—MULTIPLE OUTPUT 2-5 CHANNELS

Max Total Output Power (Watts)	Main Channel VDC Avail: 2, 3, 12, 15, 24, 28, 48, 60		Channels 2, 3, 4 Max Output Current (Amps)				Model Number	Pg. No.
	Max 5V Power (Watts)	Max Current @ 5V (Amps)	VDC Avail: 2, 3, 5, 12, 15		VDC Avail: 18, 21, 24, 28			
			Med. Current	High Current	Med. Current	High Current		
375	250	50	12	15	6	7.5	PM 2775A	43
600	500	100	12	15	6	7.5	PM 2776A	43
750	600	120	12	15	6	7.5	PM 2777A	43

International Specs

Pioneer's Legacy International Line lets you design for applications worldwide. They meet all the following specifications:

SAFETY SPECIFICATIONS		APPLICATIONS	DIELECTRIC WITHSTAND TEST (VDC)			A.C. ⁽¹⁾ LEAKAGE (mA)	CREEPAGE/CLEARANCE (mm)	
			Input/Output	Input/Chassis	Output/Chassis		Input/Output	Input/Chassis
UL	114	Office Appliances	1414	1414	—	5.0	2.4	2.4
	478 (5th Edition)	Information Processing and Business Equipment	1414	1414	—	5.0	2.4	2.4
	1012	Power Supplies	2121	2121	707	5.0	2.4	2.4
CSA	C22.2-142	Process Control	1414	1414	707	5.0	2.4	2.4
	C22.2-143	Office Machines	1414	1414	—	5.0	2.4	2.4
	C22.2-154	Data Processing Equipment	1414	1414	—	5.0	2.4	2.4
	Bulletin #1402	Power Supplies	1414	1414	707	5.0	2.4	2.4
VDE	0804, Class I	Telecommunication Equipment	3536	2121	707	3.5	8.0	3.0
VDE	0805, Class I (SELV)	Safety of Data Processing Equipment	3536	3536	707	3.5	8.0	3.0
VDE	0806, Class I (SELV)	Off. Mach. (Superseded VDE 0730 in 1981)	1768	1768	—	3.5	8.0	3.0
IEC	380, Class I (SELV)	Office Machines	1768	1768	707	3.5	8.0	3.0
IEC	435, Class I (SELV)	Data Processing Equipment	1768	1768	707	3.5	8.0	3.0
BSI	5850, Class I (SELV)	Office Machines	1780	1780	707	3.5	8.0	3.5
BSI	6204, Class I (SELV)	Data Processing Equipment	1780	1780	707	3.5	8.0	3.0
BPO	Tech Guide #26	Telecommunications Equipment (with shield)	2237	2237	—	3.5	8.0	3.0

EMI SPECIFICATIONS		APPLICATIONS	FREQ. RANGE	CLASS	LOWEST LIMIT (db μ V)	RESTRICTIONS
FCC	Rules, 15J (Docket 20780)	Computing Equipment > 10KHZ	450KHz-30MHz	A	60	Industrial Use, Requires label Unrestricted Residential Use
				B	48	
VDE	0871	RF Equipment > 10KHz	150KHz-30MHz ⁽²⁾ 10KHz-30MHz	A	60	Requires Site Permit Site Permit Not Required
				B	48	

Note 1: Leakage & EMI performance are related, PMI will modify standard models to meet your requirements.

Note 2: PMI meets level A from 150KHz to 30MHz

Pioneer Magnetics Legacy Power Supplies meet all international radiation requirements.