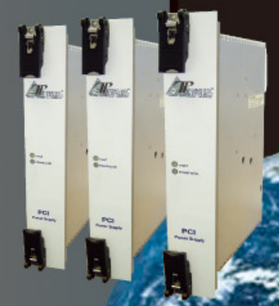
The All Power Company

Technology Dynamocs Inc. is a parent company to three divisions specializing in all aspects of power conversion for commercial an military applications over 95 years of design experience



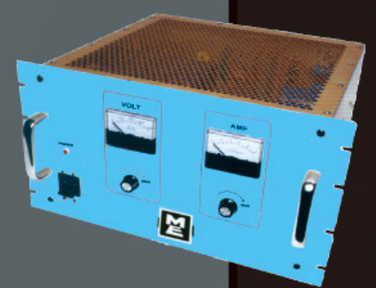
ELECTRONICS INTEGRATION TECHNOLOGY DIVISION

Over 10 years of full-service manufacturer specializing in ruggedized COTS and MIL-Spec electronics assembly. Areas of specific expertise include Surface Mount (SMT) and Mixed Technologies PC Boards, complex box assembly, sytems integration, and testing services

NOVA ELECTRIC DIVISION

Inverters, Uninterruptible Power Systems, Frequency Converters for commercial and military applications.

Over 30 years of experience in AC output power conversion equipment and UPS units. Serving the computer, communication, airport, mass transit and military fields. Known for its high reliability and rugged designs. Offering an extensive line of standard off-the-shelf products.



MID-EASTERN DIVISION

Linear power supplies, laboratory and instrumentation power supplies for commercial and military applications.

Over 20 years of design excellence serving the instrumentation field with high precision metered linear power supplies, extremely low ripple, tight regulation and stable outputs. Other products offered: special test consoles and encapsulated modules , extensive line of standard products.

100 School St. Bergenfield, NJ 07621
Phone (201) 385-0500 FAX (201) 385-0702
e-mail: tdisales@theallpower.com website: www.theallpower.com

TECHNOLOGY DYNAMICS INC. SWITCHMODE POWER SUPPLIES AND DC TO DC CONVERTERS

ISO 9001 FILE: A5269

TECHNOLOGY DYNAMICS INC.

- SWITCHING POWER SUPPLIES
- DC TO DC CONVERTERS
- DC-UPS SYSTEMS
- HOT SWAP POWER SYSTEMS
- RACK PANEL MOUNT
- CUSTOM POWER SUPPLIES
- MILITARY POWER SUPPLIES

GLOBAL VISION IN POWER CONVERSION

ISO 9001 FILE: A5269

Over 37 years of design excellence
www.theallpower.com
Reliable power where and when you need it.




Established in 1976, Technology Dynamics Inc. is a leading manufacturer of Standard, Modified and Full Custom Switching Power Supplies, DC-DC Converters & DC UPS Systems for Commercial, Industrial and Military applications.

Technology Dynamics Inc. and its divisions are located in Bergenfield, NJ.USA. With 4 modern facilities totaling over 70,000 square feet, 130 dedicated employees with Wave Solder, Sheet Metal and Magnetic Fabrication Technology Dynamics Inc. is capable of handling any power supply requirement the world may require.

Maintaining a strong focus on providing state of the art power conversion products for the most demanding applications, Technology Dynamics Inc. utilizes a vast line of standardized product designs resulting in lower sale price, reduced lead times and complete customer satisfaction. Should Full Custom power supplies be the solution, Technology Dynamics Inc. maintains 15 Degreed Engineers and support personnel both Electrical and Mechanical to solve any power conversion problem. Many of the products offered by Technology Dynamics Inc. are successfully qualified to meet the stringent requirements found in Military applications such as MIL-STD-810, MIL-STD-461, MIL-STD-1399, MIL-STD-167 and MIL-STD-901. Robust construction and extremely high reliability are features inherent to Technology Dynamics Inc. products, which all boast low MTTR and High MTBF. Equally important, standing behind each and every unit is a company with over 33 years of experience in the Engineering, Design and Quality Manufacturing of truly rugged power conversion products.

Expanding its scope in power conversion, Technology Dynamics Inc in 1990 acquired Nova Electric and Mid-Eastern Industries. Each company maintains leadership positions in their power conversion fields. Nova Electric providing Inverters, UPS Systems and Frequency Converters while Mid-Eastern Industries delivers High Reliability Low Noise Precision Linear power Supplies. In 2007 Technolgy Dynamics Inc. acquired Electronic Integration Technology which specializes in Rugged “COTS” & MIL-SPEC Electronic assembly. With their acquisitions TDI has formed the most comprehensive and dynamic Power Conversion company in the world today.

A brief description of the companies and their products….

Technology Dynamics Inc.
Founded in 1976 Technology Dynamics Inc. (TDI) manufacturers High Reliability Switching Power Supplies DC-DC, Converters and DC-UPS Systems (Battery Back-Up) power supplies in the range from 50 watts to 30KW. With a vast library of 3500 Standard, Modified, and Full Custom field proven designs, Technology Dynamics Inc. can support any application found in Telecom, Data Processing, Medical, Industrial and Military programs . While many companies offer consumer based products modified to meet certain “rugged” applications, Technology Dynamics Inc. products are designed from inception with Harsh Industrial and Military environments in mind. Satisfied customers always contact Technology Dynamics Inc. for all their power conversion needs.

Nova Electric
Founded in 1970, Nova Electric manufacturers rugged UPS Systems, DC-AC Inverters and Solid-State Frequency Converters in power levels from 1.5 KVA to 30,000 KVA designed for use in severe environment Industrial and Military applications. Typical Industrial applications include commercial utilities, mines, steel mills, airports and other severe environment applications. Nova Electric products can also be found in numerous Military programs as well such as Shelters, Communication Systems, Shipboard and Airbourne applications qualified to MIL-STD-810, MIL-STD-461, MIL-STD-1399, MIL-STD-167 and MIL-STD-901. Nova Electric is the company of choice for rugged UPS Systems to the Military.

Mid-Eastern Industries
Founded in 1958, Mid-Easten Industries manufacturers High Precision Linear Power Supplies for Commercial, Industrial and Military applications. Mid-Eastern Industry products boast advanced innovative technologies unique to the industry. Mid-Eastern Industries is the leading supplier of High Voltage Power Supplies for sonar systems. Other industries supported by Mid-Eastern products include Research institutes, universities, laboratories, entertainment and homeland security. Mid-Eastern Industries leads the way in the design and manufacture of Precision Low Noise Linear Power Supplies.

Electronic Integration Technology
Electronic Integration Technology, Inc. is a full-service contract manufacturer specializing in ruiggedized COTS and MIL-Spec electronics assembly. Areas of specific expertise include Surface Mount (SMT) and Mixed Technologies PC Boards, complex box assembly, systems integration, and testing services. The company excels in delivering high mix small to medium production runs, with fast and accurate prototyping, EIT handles consignment kits all the way through complete turnkey projects, and acna perform all phases from design to manufacturing, to testing. These capabilities ensure defect-free final products delivered on schedule, and within budget.

STANDARD TERMS AND CONDITIONS

1.(a) GENERAL: Any sale of products by Technology Dynamics Inc. is governed exclusively by these Standard Terms and Conditions of Sales (hereinafter called "Standard Terms") which, unless otherwise agreed by Seller in writing, shall be a part of the sales contract and shall supersede any inconsistent terms on Buyer's purchase order or subsequent releases for this product.

1.(b) All orders placed with Seller must be in the form of a written purchase order. A binding sales contract will only result when Seller accepts Buyer's order at Seller's office in Bergenfield, NJ which will in all cases be understood to contain these conditions and terms of sales.

1.(c) Any modification or variation of these Standard Terms must be conditional upon the written approval of Seller.

2. UPDATING OF MODELS: Seller reserves the right to change the design and/or the specifications of the standard products already ordered by Buyer and accepted by Seller, and Seller may ship the modified products to Buyer without prior notice. Seller also reserves the right to discontinue the manufacture or supply of any particular product without prior notice to Buyer.

3.(a) WARRANTY: Seller warrants to Buyer that each product supplied by it is of good workmanship and free from any inherent mechanical defects for one year, provided that it is installed and operated in accordance with Seller's instructions (and subject always to such instructions), in accordance with generally accepted industrial practices, and further provided that the product is used under normal conditions for which it is designed and that it receives due and proper care, protection and maintenance under the supervision of competent personnel.

3.(b) This warranty is governed by the provisions of the applicable Seller's published warranty certificate, a copy of which is shipped with the product.

3.(c) All other guarantees, warranties, conditions of representations, either expressed or implied, whether arising under statute, common law, commercial usage or otherwise, including implied warranties of merchantability and fitness for a particular purpose, are excluded.

3.(d) Under no circumstances whatsoever shall seller be liable to any person or firm or corporation for any special, indirect, or consequential damages, whether for breach of contract, negligence, misrepresentation or otherwise, and whether resulting in lost profits, loss of interest in money borrowed or invested, impairment of goods, work stoppage, or otherwise, in any way arising out of any transactions to which these standard terms apply.

4. DRAWINGS: All illustrations, drawings, etc., issued by Seller or contained in seller’s catalogues, price lists advertisements or any other publications must be regarded by Seller are stated in good faith as being approximately correct but no responsibility can be accepted for their accuracy.

5.(a) SHIPMENT, DELIVERY AND FORCE MAJEURE: Shipment and delivery dates are quoted in good faith and are approximate. Delay in delivery or shipment shall not give Buyer the right to cancel any order. Seller shall not be liable to pay any penalty for delay or failure to ship nor shall be bound by any provision for the payment of a penalty of any nature unless it has expressly consented to such penalty provision in writing.

5.(b) In no event shall Seller be liable for any consequential damages caused by delay or failure to deliver or ship due especially but not exclusively to force majeure and other causes beyond its reasonable control. The term force majeure shall include but not be limited to war, blockade, civil disturbances, strikes and lockouts, labor shortages, fire and other casualties, accidents, governmental acts (including regulation covering export and import licensing and currency exchange), material shortages and delays in obtaining materials equipment or transportation in case of nondelivery or failure to timely delivery. Seller’s obligation shall be limited to the refund of any advance payment, which may theretofore have been made by Buyer.

6.(a) PRICES: Unless otherwise provided on the face of Seller's relevant form or specified otherwise in writing by Seller, quotations and offers by Seller are F.O.B. Seller's manufacturing plant or warehouse and are firm as to the price for thirty (30) days from the date the quotations or offers which are sent by Seller. After the expiration of the initial thirty (30) day period, the applicable prices are those in effect at the time of order. Any reference to F.O.B. or other delivery terms shall, unless otherwise provided herein, have the same meaning as that ascribed by the International Chamber of Commerce in its current edition of inco terms.

6.(b) Errors and omissions, whether obvious or not, in any element of a quotation are subject to correction by Seller.

7.(a) TERMS OF PAYMENT: Payment shall be made at net ten (10) days from the date of shipment and in USD. The failure by Buyer to pay at the agreed time and place after 65 days constitutes a waiver of all his rights under the contract including product warranty. When an account becomes due, according to its terms, interest at the rate of 18% per year will be charged and accrued to the outstanding invoice(s) until paid.

7.(b) All products sold by Seller are shipped F.O.B. its manufacturing plant or warehouse.

7.(c) All taxes, fees, costs and other charges connected with shipment, transportation, insurance and importation of the products, are the responsibility of Buyer, and, if paid by Seller, such expenses may be recovered by Seller from Buyer.

8.RISK OF LOSS: Unless expressly provided for on a basis independent of that set forth above for passage of title, risk of loss or damage to the products shall pass from Seller to Buyer upon delivery thereof to Buyer or his representative or to a carrier for shipment to Buyer, as the case may be, F.O.B. at Seller's manufacturing plant or warehouse. We strongly suggest that all shipment be insured for full value. In the event of any insurance claim, all invoices must be paid in full before any insurance claim can be processed.

9. ENTIRE AGREEMENT: The terms and conditions set forth herein constitute the final, complete and exclusive agreement between the parties as to the subject matter thereof. This Agreement may not be amended except in writing and signed by the authorized representatives of both parties.

10.(a) CANCELLATION CHARGES: If Buyer cancels order at any time or refuses delivery of mutually agreed upon scheduled products, especially if specifically customized for his usage, Buyer shall incur cancellation charges as invoiced by Seller at Seller's option as follows:

(1) The full agreed price for the products completed; or loss of profits.

(2) Seller's full cost plus overhead, plus 25% for all products actually in process or scheduled for completion less than 30 days after the date Seller receives notice of Buyer's refusal; or

(3) Seller's full cost plus 25% for any raw materials or supplies purchased or contracted for by Seller or Buyer's order as of the date Seller receives notice of Buyer's refusal.

10.(b) Modified standard products or custom products are not subject to cancellation.

11. GOVERNING LAW: Validity and interpretation of all documents relating to this sale and rights and duties of the parties hereto, shall be governed by the laws of the State of New Jersey, USA.

12.(a) MISCELLANEOUS: All provisions of this contract are essentially integral and correlated, therefore, failure on the part of Buyer to fulfill any of his obligations under this contract shall constitute a default of the contract and Buyer shall be liable as a defaulter.

12.(b) Failure on the part of Seller to enforce any of the rights derived from this contract shall never be construed as a waiver of any of its rights.

12.(c) Declaration of nullity of one or more of the clauses on this contract by any legal authority shall not affect the validity of the other clauses, which for this purpose are considered severable.

13. ATTORNEYS' FEES. If Purchaser fails to pay any amounts due hereunder or otherwise breaches this Proposal For Contract and the Company has to enforce its rights hereunder, whether or not through litigation, the Company shall be entitled to be reimbursed by Purchaser for all costs and expenses incurred relating to the collection or breach, including all attorneys' fees.

PRODUCT SELECTION GUIDE

SWITCHING POWER SUPPLIES

MW - SERIES

SINGLE / MULTIPLE OUTPUT
15-300 WATTS

MODEL SELECTION

MW SERIES AC-DC - SINGLE OUTPUT

MODEL	OUTPUT	CS	MODEL	OUTPUT	CS	MODEL	OUTPUT	CS
TS-15-5	5V@3A	A	TS-35-15	15V@2.4A	B	TS-60-12	12V@5A	C
TS-15-12	12V@1.3A	A	TS-35-24	24V@1.5A	B	TS-60-15	15V@4A	C
TS-15-24	24V@.7A	A	TS-40-5	5V@8A	B	TS-60-24	24V@2.5A	C
TS-15F-5	5V@3A	A	TS-40-12	12V@3.5A	B	TS-100-5	5V@20A	D
TS-15F-12	12V@1.3A	A	TS-40-15	15V@2.8A	B	TS-100-7.5	7.5V@13.5A	D
TS-15F-24	24V@.7A	A	TS-40-24	24V@1.8A	B	TS-100-12	12V@8.5A	D
TS-25-5	5V@5A	A	TS-50-5	5V@10A	C	TS-100-13.5	13.5V@7.4A	D
TS-25-12	12V@2.1A	A	TS-50-12	12V@4.2A	C	TS-100-15	15V@6.7A	D
TS-25-15	15V@1.7A	A	TS-50-15	15V@3.4A	C	TS-100-24	24V@4.5A	D
TS-25-24	24V@1.1A	A	TS-50-24	24V@2.1A	C	TS-100-27	27V@3.7A	D
TS-35-5	5V@7A	B	TS-60-5	5V@12A	C	TS-100-48	48V@2.2A	D
TS-35-12	12V@3A	B				TS-100F-5	24V@12.5A	D

MODEL	OUTPUT	CS	MODEL	OUTPUT	CS	MODEL	OUTPUT	CS
TS-100F-7.5	7.5V@13.5A	D	TS-240-12	12V@18A	F	TS-320-27	27V@11A	G
TS-100F-12	12V@8.5A	D	TS-240-15	15V@15A	F	TS-320-48	48V@6.5A	G
TS-100F-15	15V@6.7A	D	TS-240-24	24V@10A	F	TSP-300-5	5V@50A	G
TS-100F-24	24V@4.5A	D	TS-300-12	12V@25A	G	TSP-300-7.5	7.5V@34A	G
TS-100F-48	48V@2.2A	D	TS-300-24	24V@12.5A	G	TSP-300-12	12V@24A	G
TS-150-5	5V@30A	E	TS-300-48	48V@6.3A	G	TSP-300-13.5	13.5V@21A	G
TS-150-7.5	7.5V@20A	E	TS-320-5	5V@50A	G	TSP-300-15	15V@19A	G
TS-150-12	12V@12A	E	TS-320-7.5	7.5V@36A	G	TSP-300-24	24V@12.5A	G
TS-150-15	15V@10A	E	TS-320-12	12V@25A	G	TSP-300-27	27V@11A	G
TS-150-24	24V@6.5A	E	TS-320-13.5	13.5V@22A	G	TSP-300-48	48V@6.25A	G
TS-240-5	5V@40A	E	TS-320-15	15V@20A	G			
			TS-320-24	24V@12.5A	G			

MW SERIES AC-DC - DUAL OUTPUT

MODEL	OUTPUT	CASE
TD-30A	5V@4A, +12V@1A	B
TD-30B	5V@2.2A, +24V@1A	B
TD-50A	5V@6A, +12V@2A	C
TD-50B	5V@6A, +24V@1A	C
TD-60A	5V@4A, +12V@3A	C

MODEL	OUTPUT	CASE
TD-60B	5V@3A, +24V@1.8A	C
TD-100A	5V@10A, +12V@4A	E
TD-100B	5V@6A, +24V@3A	E
TD-120A	5V@12A, +12V@5A	E
TD-120B	5V@6A, +24V@4A	E

MW SERIES AC-DC - TRIPLE OUTPUT

MODEL	OUTPUT	CASE
TT-30A	5V@3A, +12V@1A, -5V@.5A	B
TT-30B	5V@3A, +12V@1A, -12V@.5A	B
TT-40A	5V@3A, +12V@2A, -5V@.5A	B
TT-40B	5V@3A, +12V@2A, -12V@.5A	B
TT-40C	5V@3A, +15V@1.5A, -15V@.5A	B

MODEL	OUTPUT	CASE
TT-50A	5V@7A, +12V@1A, -5V@1A	C
TT-50B	5V@5A, +12V@1A, -12V@1A	C
TT-50C	5V@4A, +15V@1A, -15V@1A	C
TT-50D	5V@3A, +12V@1A, +24V@1A	C
TT-60A	5V@5A, +12V@2.5A, -5V@5A	C

MODEL	OUTPUT	CASE
TT-60B	5V@5A, +12V@2.5A, -12V@.5A	C
TT-60C	5V@5A, +15V@2A, -15V@.5A	C
TT-80D	5V@4A, +12V@2A, +24V@1.5A	D
TT-100C	5V@10A, +15V@2.5A, -15V@1A	E
TT-100D	5V@6A, +12V@2A, +24V@2A	E

MW SERIES AC-DC - QUAD OUTPUT

MODEL	OUTPUT	CASE
TQ-55	5V@7A +12V@1A, -5V@.5A, -12V@.5A	C
TQ-60	5V@5.5A+12V@2A, -5V@.5A, -12V@.5A	C
TQ-100H	5V@13A +12V@2A, -5V@1A, -12V@1A	E

MODEL	OUTPUT	CASE
TQ-120B	5V@11A +12V@4A, -5V@1A, -12V@1A	E
TQ-120C	5V@10A +15V@3.5A, -5V@1A, -15V@1A	E
TQ-120D	5V@8A+12V@2A, +24V@2A, -12V@1A	E
TQ-180	5V@8A +12V@2A, +24V@4A, -12V@1A	H

CASE SIZE

A	3.9" (L) x 3.8" (W) x 1.4" (H)	F	8.0" (L) x 3.6" (W) x 2.5" (H)
B	5.1" (L) x 3.8" (W) x 1.5" (H)	G	8.5" (L) x 4.5" (W) x 1.9" (H)
C	6.2" (L) x 3.8" (W) x 1.5" (H)	H	6.1" (L) x 5.9" (W) x 3.3" (H)
D	7.8" (L) x 3.8" (W) x 1.5" (H)	I	7.2" (L) x 4.7" (W) x 3.6" (H)
E	8.0" (L) x 4.3" (W) x 1.9" (H)		

NOTE:SOME MODELS MAY REQUIRE MINIMUM QUANTITY PURCHASE

TECHNOLOGY DYNAMICS INC. *100 School Street, Bergenfield, NJ 07621*

Phone (201) 385-0500 **Fax (201) 385-0702**
www. theallpower.com **tdisales@theallpower.com**

TCP SERIES

SINGLE OUTPUT
400 - 1000 WATTS

115/230V INPUT

Automatic Line Selection (optional)

11.5" / 292.1 L x 5.25" / 133.3 W x 2.6" / 66.04 H [mm]

MODEL SELECTION

400 WATTS			600 WATTS		1000 WATTS	
Model	Nominal Output (VDC)	Maximum Current (ADC)	Model	Maximum Current (ADC)	Model	Maximum Current (ADC)
TCP-3.3-100	3.3V	100A	TCP-3.3-120	120A	Consult Factory	
TCP-5-60	5V	60A	TCP-5-100	100A		
TCP-12-34	12V	34A	TCP-12-50	50A		
TCP-15-27	15V	27A	TCP-15-40	40A		
TCP-24-17	24V	17A	TCP-24-25	25A	TCP-24-41	41A
TCP-28-14	28V	14A	TCP-28-21	21A	TCP-28-35	35A
TCP-36-11	36V	11A	TCP-36-16	16A	TCP-36-27	27A
TCP-48-8	48V	8A	TCP-48-12	12A	TCP-48-20	20A

PTCP SERIES

SINGLE OUTPUT
600-1000 WATTS
POWER FACTOR CORRECTED

100 - 264VAC UNIVERSAL INPUT

MODEL SELECTION

600W MODEL	OUTPUT	1000W MODEL	OUTPUT
PTCP-12 - 50	12V@50A	CONSULT FACTORY	
PTCP-15 - 40	15V@40A		
PTCP-24 - 25	24V@25A	PTCP-24 - 41	24V@41A
PTCP-28 - 20	28V@20A	PTCP-28 - 35	28V@35A
PTCP-36 - 16	36V@16A	PTCP-36 - 27	36V@27A
PTCP-48 - 12	48V@12A	PTCP-48 - 20	48V@20A

11.5" / 292.1 L x 4.75" / 120.6 W x 2.62" / 66.5 H [mm]

TD RSP-1000 SERIES

SINGLE OUTPUT
1000 WATTS
POWER FACTOR CORRECTED
1U HIGH

UNIVERSAL INPUT
90-264 VAC INPUT

11.6" / 295 L x 5" / 127 W x 1.6" / 41 H [mm]

MODEL SELECTION

1000 WATTS		
MODELS	NOMINAL OUTPUT (VDC)	MAXIMUM CURRENT (ADC)
TD RSP-1000-12	12V	60A
TD RSP-1000-15	15V	50A
TD RSP-1000-24	24V	40A
TD RSP-1000-27	28V	35A
TD RSP-1000-48	48V	21A

TCP 1K - 2K SERIES

SINGLE OUTPUT
1200 - 1500 - 2000 WATTS

INPUT 115 / 230V
Single Phase
Automatic Line Selection (optional)

11.5" / 292.1 L x 5.25" / 133.3 W x 5.32" / 135.1 H [mm]

MODEL SELECTION

1200W Model	Voltage	Amps	1500W Model	Voltage	Amps	2000W Model	Voltage	Amps
TCP-1K2-12	12V	100A	TCP-1K5 -12	12V	125A	TCP-2K2 -12	12V	166A
TCP-1K2-15	15V	80A	TCP-1K5-15	15V	100A	TCP-2K2 -15	15V	133A
TCP-1K2-24	24V	50A	TCP-1K5-24	24V	62A	TCP-2K2 -24	24V	83A
TCP-1K2-28	28V	42A	TCP-1K5-28	28V	53A	TCP-2K2 -28	28V	71A
TCP-1K2-48	48V	25A	TCP-1K5- 48	48V	31A	TCP-2K2 -48	48V	41A

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TD RSP SERIES

SINGLE OUTPUT
1500 WATTS
POWER FACTOR CORRECTED

90-264 VAC
UNIVERSAL INPUT

11" / 279.4 L x 5" / 127 W x 3.29" / 66.04 H [mm]

MODEL SELECTION

1500 WATTS		
MODELS	NOMINAL OUTPUT (VDC)	MAXIMUM CURRENT (ADC)
TD RSP-1500-5	5V	240A
TD RSP-1500-12	12V	125A
TD RSP-1500-15	15V	100A
TD RSP-1500-24	24V	63A
TD RSP-1500-27	28V	56A
TD RSP-1500-48	48V	32A

NTDM SERIES

SINGLE OUTPUT
1500-3000 WATTS

INPUT
115/230V 1 PHASE
OR
115/208V 3 PHASE
Automatic Line Selection (optional)

12.5" / 317.5 L x 8" / 203.2 W x 5" / 127 H [mm]

MODEL SELECTION

1500 WATT OUTPUT		2000 WATT OUTPUT*		2500 WATT OUTPUT*		3000 WATT OUTPUT*	
MAXIMUM CURRENT (ADC)	MODEL	MAXIMUM CURRENT (ADC)	MODEL	MAXIMUM CURRENT (ADC)	MODEL	MAXIMUM CURRENT (ADC)	MODEL
125	NTDM-12-125	CONSULT FACTORY		CONSULT FACTORY		CONSULT FACTORY	
100	NTDM-15-100						
62	NTDM-24-62	84	NTDM-24-84	104	NTDM-24-104	125	NTDM-24-125
54	NTDM-28-54	72	NTDM-28-72	89	NTDM-28-89	107	NTDM-28-107
31	NTDM-48-31	42	NTDM-48-42	52	NTDM-48-52	62	NTDM-48-62
14	NTDM-110-14	18	NTDM-110-18	22	NTDM-110-22	27	NTDM-110-27

*** 2kw and 3kw units are available only with 220VAC single or 115/208VAC phase input**
*** Other voltages and current available, contact the factory**

T2KOS SERIES

SINGLE OUTPUT
2200 WATTS

12.7" / 322.5 L x 8.4" / 213.3 W x 5.5" / 139.7 H [mm]

INPUT
220V 1 PHASE

MODEL SELECTION

MODEL	NOMINAL VOLTAGE (VDC)	MAXIMUM CURRENT (ADC)
T2KOS-03	3.3V	270A
T2KOS-05	5V	270A
T2KOS-15	15/12V	145A
T2KOS-28	28/24V	80A
T2KOS-48	48V	42A
T2KOS-250	250V	9A

HPRM SERIES

SINGLE OUTPUT
10,000 WATTS

22" / 558.8 L x 19" / 482.6 W x 10.5" / 266.7 H [mm]

INPUT
120/208 3P 4 WIRE

MODEL SELECTION

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT
HPRM-28-350	28VDC	350A
HPRM-48-208	48VDC	208A
HPRM-120-83	120VDC	83A
HPRM-250-40	250VDC	40A

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TMP SERIES

MULTIPLE OUTPUT
450-1000 WATTS

UNIVERSAL INPUT
85-264 VAC

11.5" / 292.1 L x 5.25" / 133.3 W x 2.6" / 66.04 H [mm]

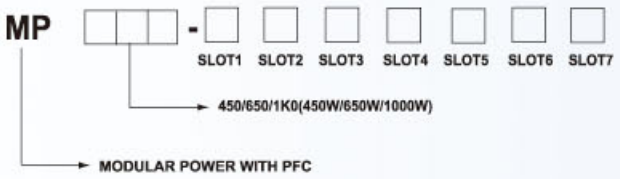
MS-150: 1-SLOT SINGLE OUTPUT (150W MAX.)			
ITEM CODE	OUTPUT	PEAK I	VDC ADJ.
A	2V, 0~25A	30A	1.6~2.6V
B	3.3V, 0~25A	30A	2.6~4.0V
C	5V, 0~25A	30A	4.0~6.0V
D	7.5V, 0~18A	20.7A	6.0~9.0V
E	12V, 0~13A	15A	9.0~13.2V
F	15V, 0~10A	11.5A	13.2~16.8V
G	18V, 0~8.5A	9.8A	16.8~20.0V
H	24V, 0~6.5A	7.5A	20.0~26.4V
I	27V, 0~5.8A	6.7A	25.0~31.0V
J	33V, 0~4.7A	5.4A	30.0~40.0V
K	48V, 0~3.2A	3.68A	40.0~53.0V

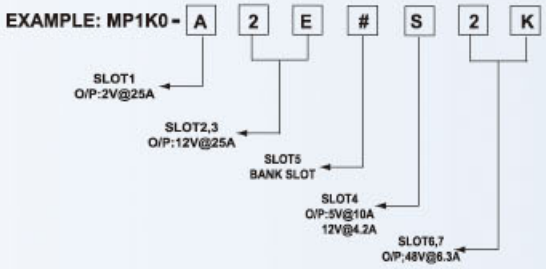
MS-300: 2-SLOT PARALLELABLE SINGLE OUTPUT (300W MAX.)			
ITEM CODE	OUTPUT	PEAK I	VDC ADJ.
2A	2V, 0~50A	57.5A	1.6~2.6V
2B	3.3V, 0~50A	57.5A	2.6~4.0V
2C	5V, 0~50A	57.5A	4.0~6.0V
2D	7.5V, 0~40A	46.0A	6.0~9.0V
2E	12V, 0~25A	29.0A	9.0~13.2V
2F	15V, 0~20A	23.0A	13.2~16.8V
2G	18V, 0~16.7A	19.2A	16.8~20.0V
2H	24V, 0~12.5A	14.4A	20.0~26.4V
2I	27V, 0~12.9A	12.9A	25.0~31.0V
2J	33V, 0~9.1A	10.5A	30.0~40.0V
2K	48V, 0~6.3A	7.2A	40.0~53.0V

MD-100: 1-SLOT ISOLATED DUAL OUTPUT (100W MAX.)			
ITEM CODE	OUTPUT	MAX	VDC ADJ.
R	5V, 2.0~10A	90.0W	4.75~5.5V
	5V, 0.0~8A		4.75~5.5V
S	5V, 2.0~10A	100.4W	4.75~5.5V
	12V, 0.0~5.8A		11.4~13.2V
T	5V, 2.0~10A	101.0W	4.75~5.5V
	15V, 0~4.7A		14.2~16.5V
U	24V, 0.5~30.0A	100.0W	22.8~26.4V
	5V, 0~10.0A		4.75~5.5V
V	24V, 0.6~3.0A	100.8W	22.8~26.4V
	12V, 0.0~4.7A		11.4~13.2V
W	12V, 1.0~5.0A	100.8W	11.4~13.2V
	12V, 0~5.8A		11.4~13.2V
X	15V, 1.0~4.7A	100.5W	14.2~16.5V
	15V, 0.0~4.7A		14.2~16.5V

MS-75: 1-SLOT SINGLE OUTPUT (75W MAX.)			
ITEM CODE	OUTPUT	PEAK I	VDC ADJ.
L	3.3V, 0~15A	17.3A	2.6~4.0V
M	5V, 0~15A	17.3A	4.0V~6.0V
N	12V, 0~6.3A	7.3A	9.0~13.2V
O	15V, 0~5.0A	5.8A	13.2~16.8V
P	24V, 0~3.2A	3.7A	20.0~26.4V
Q	48V, 0~1.6A	1.8A	40.0~53.0V

OUTPUT CONFIGURATION GUIDE





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DC to DC CONVERTERS

TSD SERIES

SINGLE OUTPUT
25 - 150 WATTS

(A) (C) (D) (E)

A: 3.82" [97mm]L x 3.90" [99mm]W x 1.37" [35mm]H
C: 6.26" [159mm]L x 3.82" [97mm]W x 1.50" [38mm]H
D: 7.83" [199mm]L x 3.85" [99mm]W x 1.50" [38mm]H
E: 7.83" [199mm]L x 4.33" [110mm]W x 1.97" [50mm]H

MODEL SELECTION

MODEL	MAX. O/P (WATTS)	DC INPUT (V)	DC OUTPUT RATING(A) +5V	+12V	+24V	FIG	ORDER INFORMATION
TSD-25□-□□	25	12	5	2.1	1.1	A	TSD - 50A-12
TSD-50□-□□	50	12-24-48	10	4.2	2.1	C	INPUT VOLTAGE: A:9-18VDC, B:18-36VDC, C:36-72VDC; OUTPUT VOLTAGE: 05:4.5-5.5V, 12:11-16V, 24:23-30V
TSD-100□-□□	100	48	20	8.5	4.2	D	
TSD-150□-□□	150	24		12.5		E	

NOTE: MINIMUM QUANTITY BUY (5 PCS.)

TCPDC SERIES

SINGLE OUTPUT
400 - 1000 WATTS

24VDC & 48VDC INPUT

11.5" / 292.1 L x 5" / 127 W x 2.6" / 66.04 [mm] H

MODEL SELECTION

400 WATTS			600 WATTS		1000 WATTS	
Model	Nominal Voltage (VDC)	Maximum Current (ADC)	Model	Maximum Current (ADC)	Model	Maximum Current (ADC)
TCPDC-12-34	12V	34A	TCPDC-12-50	50A	Consult Factory	
TCPDC-24-17	24V	17A	TCPDC-24-25	25A	TCPDC-24-41	41A
TCPDC-48-8	48V	8A	TCPDC-48-12	12A	TCPDC-48-20	20A

INPUT DESIGNATION: PREFIX (P) 24VDC INPUT, (Q) 48 VDC INPUT. EXAMPLE: QTCPDC-48-8

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XTCPDC SERIES

SINGLE OUTPUT
400-1000 WATTS

125 VDC INPUT

11.5" / 292.1 L x 4.75" / 120.6 W x 2.6" / 66.5 [mm] H

MODEL SELECTION

400 WATTS			600 WATTS		1000 WATTS	
Model	Nominal Voltage (VDC)	Maximum Current (ADC)	Model	Maximum Current (ADC)	Model	Maximum Current (ADC)
XTCPDC-12-34	12V	34A	XTCPDC-12-50	50A	Consult Factory	
XTCPDC-15-27	15V	27A	XTCPDC-15-40	40A		
XTCPDC-24-17	24V	17A	XTCPDC-24-25	25A	XTCPDC-24-41	41A
XTCPDC-28-14	28V	14A	XTCPDC-28-21	21A	XTCPDC-28-35	35A
XTCPDC-36-11	36V	11A	XTCPDC-36-16	16A	XTCPDC-36-27	27A
XTCPDC-48-8	48V	8A	XTCPDC-48-12	12A	XTCPDC-48-20	20A

TCPDC - 1K SERIES

SINGLE OUTPUT
1200-1500 WATTS

24 VDC & 48 VDC INPUT

11.5" / 292.1 L x 5" / 133 W x 5.32" / 135.1 H [mm]

MODEL SELECTION

1200 WATTS			1500 WATTS		
Model	Nominal Voltage (VDC)	Maximum Current (ADC)	Model	Nominal Voltage (VDC)	Maximum Current (ADC)
TCPDC-1K2-12	12V	100A	TCPDC-1K5-12	12V	125A
TCPDC-1K2-15	15V	80A	TCPDC-1K5-15	15V	100A
TCPDC-1K2-24	24V	50A	TCPDC-15K-24	24V	62A
TCPDC-1K2-28	28V	42A	TCPDC-1K5-28	28V	53A
TCPDC-1K2-36	36V	32A	TCPDC-1K5-36	36V	41A
TCPDC-1K2-48	48V	24A	TCPDC-1K5-48	48V	31A

INPUT DESIGNATION: PREFIX (P)=24VDC INPUT, (Q)=48 VDC INPUT. EXAMPLE: QTCPDC-1K2-48

BATTERY BACKUP

TCP LVBD SERIES

SINGLE OUTPUT
400 - 1000 WATTS
LOW VOLTAGE BATTERY DISCONNECT

115/230V INPUT

Automatic Line Selection (optional)

11.5" / 292.1 L x 5.25" / 133.3 W x 2.6" / 66.04 H [mm]

MODEL SELECTION

400 WATTS			600 WATTS		1000 WATTS	
Model	Nominal Output (VDC)	Maximum Current (ADC)	Model	Maximum Current (ADC)	Model	Maximum Current (ADC)
TCP-12-34-LVBD	12V	34A	TCP-12-50-LVBD	50A	Consult Factory	
TCP-15-27-LVBD	15V	27A	TCP-15-40-LVBD	40A		
TCP-24-17-LVBD	24V	17A	TCP-24-25-LVBD	25A	TCP-24-41-LVBD	41A
TCP-28-14-LVBD	28V	14A	TCP-28-21-LVBD	21A	TCP-28-35-LVBD	35A
TCP-36-11-LVBD	36V	11A	TCP-36-16-LVBD	16A	TCP-36-27-LVBD	27A
TCP-48- 8 -LVBD	48V	8A	TCP-48-12-LVBD	12A	TCP-48-20-LVBD	20A

NOTE: THIS UNIT DOES NOT CONTAIN INTERNAL BATTERIES

TCP-BX-BBU SERIES

SINGLE OUTPUT
400-600 WATTS

115/230 VAC 1 PHASE

16" / 406.4 L x 8.3" / 210.8 W x 8.3" / 210.8 H [mm]

MODEL SELECTION

400 WATT POWER SUPPLY		600 WATT POWER SUPPLY	
TCP-BX-BBU-12-33	12V@33A	TCP-BX-BBU-12-50	12V@50A
TCP-BX-BBU-24-16	24V@16A	TCP-BX-BBU-24-25	24V@25A
TCP-BX-BBU-48-6	48V@6A	TCP-BX-BBU-48-12	48V@12A
400 WATT BACK-UP FOR 15 MIN.		600 WATTS BACKUP FOR 5 MIN.	

NOTE: MINIMUM ORDER REQUIRED
OTHER VOLTAGES & CURRENT AVAILABLE, CONTACT THE FACTORY
ADDITIONAL BATTERY CAPACITY AVAILABLE, CONTACT THE FACTORY

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TCP-RK-BBU SERIES

SINGLE OUTPUT
400 - 1000 WATTS

115/230VAC SINGLE PHASE INPUT

18" / 457.2 L x 19" / 482.6 W x 3.5" / 88.9 [mm] H

MODEL SELECTION

400 WATT POWER SUPPLY		600 WATT POWER SUPPLY		1000 WATT POWER SUPPLY	
MODEL	OUTPUT	MODEL	OUTPUT	MODEL	OUTPUT
TCP-RK-BBU-12-34	12V @ 34A	TCP-RK-BBU12-50	12V @ 50A	CONSULT THE FACTORY	
TCP-RK-BBU-24-16	24V @ 16A	TCP-RK-BBU-24-25	24V @ 25A	TCP-RK-BBU-24-41	24V @ 41A
TCP-RK-BBU-48-8	48V @ 8A	TCP-RK-BBU-48-12	48V @ 12A	TCP-RK-BBU-48-20	48V @ 20A
400 WATTS BACK-UP FOR 1/2 HOUR		600 WATTS BACK-UP FOR 10 MIN		1000 WATTS BACK UP FOR 3 MIN	

NOTE: MINIMUM ORDER REQUIRED
OTHER VOLTAGES & CURRENT AVAILABLE, CONTACT THE FACTORY
ADDITIONAL BATTERY CAPACITY AVAILABLE. CONTACT THE FACTORY

TCPTC-BBU SERIES

SINGLE OUTPUT
600-1000 WATTS

115/230VAC SINGLE PHASE INPUT

22" / 558.8 L x 24" / 609.6 W x 10" / 254 [mm] H

MODEL SELECTION

600 WATT POWER SUPPLY		1000 WATT POWER SUPPLY	
MODEL	OUTPUT	MODEL	OUTPUT
TCPTC-BBU-12-50	12V @ 50A	CONTACT FACTORY	
TCPTC-BBU-24-25	24V @ 25A	TCPTC-BBU-24-41	24V @ 41A
TCPTC-BBU-48-12	48V @ 12A	TCPTC-BBU-48-20	48V @ 20A
600 WATTS BACK-UP FOR 1/2 HOUR		1000 WATTS BACK-UP FOR 10 MIN	

NOTE: MINIMUM MODEL REQUIRED
OTHER VOLTAGES & CURRENT AVAILABLE, CONTACT THE FACTORY
ADDITIONAL BATTERY CAPACITY AVAILABLE. CONTACT THE FACTORY

TCPLP-BBU SERIES

SINGLE OUTPUT
1000-2000 WATTS
(N+1) REDUNDANT

115/230 VAC INPUT SINGLE OR PHASE

$\frac{21"}{533.4}$ L x $\frac{19"}{133.3}$ W x $\frac{3.5"}{88.9\ [mm]}$ H POWER SUPPLY

$\frac{21"}{533.4}$ L x $\frac{19"}{133.3}$ W x $\frac{3.5"}{88.9\ [mm]}$ H BATTERY BOX

MODEL SELECTION

1000 WATT SINGLE OUTPUT		2000 WATT SINGLE OUTPUT	
MODEL	OUTPUT	MODEL	OUTPUT
TCPLP-BBU-12-83	12V @ 83A	TCPLP-BBU-12-166	12V @ 166A
TCPLP-BBU-24-41	24V @ 41A	TCPLP-BBU-24-83	24V @ 83A
TCPLP-BBU-48-20	48V @ 20A	TCPLP-BBU-48-41	48V @ 41A
1000 WATTS BACK-UP FOR 25 MIN		2000 WATTS BACK-UP FOR 15 MIN	

TCPHP-BBU SERIES

SINGLE OUTPU T
2000-3000 WATTS

220VAC 1 PHASE / 208 3 PHASE INPUT

$\frac{21"}{533.4}$ L x $\frac{19"}{133.3}$ W x $\frac{5.25"}{133.3\ [mm]}$ H POWER SUPPLY

$\frac{21"}{533.4}$ L x $\frac{19"}{133.3}$ W x $\frac{7"}{177.8\ [mm]}$ H BATTERY BOX

MODEL SELECTION

2000 WATT SINGLE OUTPUT		3000 WATT SINGLE OUTPUT	
MODEL	OUTPUT	MODEL	OUTPUT
TCPHP-BBU-12-166	12V @ 166A	TCPHP-BBU-12-250	12V @ 250A
TCPHP-BBU-24-83	24V @ 83A	TCPHP-BBU-24-125	24V @ 125A
TCPHP-BBU-48-41	24V @ 41A	TCPHP-BBU-48-62	48V @ 62A
2000 WATTS BACK-UP 40 MIN.		3000 WATTS BACK-UP 25 MIN	

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HOT SWAP POWER SYSTEMS

TD RCP - HS SERIES

1U HIGH N + 1 REDUNDANT
1000 - 3000 WATTS

AC - 115/230V INPUT
DC - 125 VDC INPUT

22" / 558.8 L x 19" / 482.6 W x 1.75" / 44.45 H [mm]

MODEL SELECTION

SINGLE MODULE MODEL	OUTPUT VOLTAGE	CURRENT (A)	DUAL MODULE MODEL	OUTPUT VOLTAGE	CURRENT (A)	TRIPLE MODULE MODEL	OUTPUT VOLTAGE	CURRENT (A)
TD RCP-HS-12-60	12V	60A	TD RCP-HS-12-120	12V	20A	TD RCP-HS-12	12V-180	180A
TD RCP-HS-15-48	15V	48A	TD RCP-HS-15-96	15V	96A	TD RCP-HS-15	15V-144	144A
TD RCP-HS-24-41	24V	41A	TD RCP-HS-24-82	24V	82A	TD RCP-HS-24	24V-123	123A
TD RCP-HS-28-35	28V	35A	TD RCP-HS-28-70	28V	70A	TD RCP-HS-28	28V-105	105A
TD RCP-HS-48-20	48V	20A	TD RCP-HS-48-40	48V	40A	TD RCP-HS-48	48V-60	60A
1000W			2000W IN PARALLEL / 1000W REDUNDANT			3000W IN PARALLEL /2000W REDUNDANT		

TCP - HS SERIES

2U HIGH N + 1 REDUNDANT
1000 - 3000 WATTS

AC - 115/230V INPUT
DC - 24/48/125V INPUT

21" / 533.4 L x 19" / 482.6 W x 3.5" / 88.9 H [mm]

MODEL SELECTION

SINGLE MODULE MODEL	OUTPUT VOLTAGE	CURRENT (A)	DUAL MODULE MODEL	OUTPUT VOLTAGE	CURRENT (A)	TRIPLE MODULE MODEL	OUTPUT VOLTAGE	CURRENT (A)
TCP-HS-12-83	12V	83A	TCP-HS-12-166	12V	166A	TCP-HS-12-249	12V	249A
TCP-HS-15-66	15V	66A	TCP-HS-15-122	15V	122A	TCP-HS-15-198	15V	198A
TCP-HS-24-41	24V	41A	TCP-HS-24-82	24V	82A	TCP-HS-24-123	24V	123A
TCP-HS-28-35	28V	35A	TCP-HS-28-70	28V	70A	TCP-HS-28-105	28V	105A
TCP-HS-48-20	48V	20A	TCP-HS-48-44	48V	40A	TCP-HS-48-60	48V	60A
1000W			2000W IN PARALLEL / 1000W REDUNDANT			3000W IN PARALLEL / 2000W REDUNDANT		

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TDL - HS SERIES

3U N+1 REDUNDANT
1500 - 4500 WATTS

AC 230 INPUT Single / 3 Phase
DC 125V INPUT

18" / 457.2 L x 19" / 482.6 W x 5.25" / 133.3 H [mm]

MODEL SELECTION

SINGLE MODULE MODEL	OUTPUT VOLTAGE	CURRENT (A)	DUAL MODULE MODEL	OUTPUT VOLTAGE	CURRENT (A)	TRIPLE MODULE MODEL	OUTPUT VOLTAGE	CURRENT (A)
TDL-HS-12-125	12V	125A	TDLHS-12-250	12V	250A	TDLHS-12-375	12V	375A
TDL-HS-15-100	15V	100A	TDLHS-15-200	15V	200A	TDLHS-15-300	15V	300A
TDL-HS-24-62	24V	62A	TDLHS-24-124	24V	124A	TDLHS-24-186	24V	186A
TDL-HS-28-53	28V	53A	TDLHS-28-106	28V	106A	TDLHS-28-159	28V	159A
TDL-HS-48-31	48V	31A	TDLHS-48-62	48V	62A	TDLHS-48-93	48V	93A
1500W			3000W IN PARALLEL / 1500W REDUNDANT			4500W IN PARALLEL /3000W REDUNDANT		

NOTE: MODEL INFORMATION ASSUMES A FULLY POPULATED RACK (3 MODULES) .

NTDM - HS SERIES

BULK POWER PARALLEL OPERATION
3U N+1 REDUNDANT
1500 - 6000 WATTS

230V INPUT Single Phase
115/208V INPUT 3 Phase

18" / 457.2 L x 19" / 482.6 W x 5.25" / 133.35 H [mm]

MODEL SELECTION

1500 WATT MODULES		2000 WATT MODULES		2500 WATT MODULES		3000 WATT MODULES	
Maximum Volts/Amps per module	System Model 2 Modules	Maximum Volts/Amps per module	System Model 2 Modules	Maximum Volts/Amps per module	System Model 2 Modules	Maximum Volts/Amps per module	System Model 2 Modules
12V@125A	NTDM - HS -12-250	CONSULT FACTORY		CONSULT FACTORY		CONSULT FACTORY	
15V@100A	NTDM - HS -15-200						
24V@62A	NTDM - HS - 24-124	24V@83A	NTDM - HS -24-166	24V@104A	NTDM- HS -24-208	24V@125A	NTDM- HS- 24-250
28V@54A	NTDM - HS -28-108	28V@71A	NTDM - HS - 28-142	28V@89A	NTDM- HS -28-178	28V@107A	NTDM- HS -28-208
48V@31A	NTDM - HS -48-62	48V@41A	NTDM - HS -48-82	48V@52A	NTDM- HS -48-102	48V@62A	NTDM- HS -48-124
110V@14A	NTDM- HS -110-28	110V@18A	NTDM- HS -110-36	110V@22A	NTDM- HS -110-44	110V@27A	NTDM- HS- 110-54
3000W PARALLEL/1500 REDUNDANT		4000W PARALLEL/2000 REDUNDANT		5000W PARALLEL/2500 REDUNDANT		6000W PARALLEL/3000 REDUNDANT	

NOTE: MODEL INFORMATION ASSUMES A FULLY POPULATED RACK (2 MODULES) IN AN (N+1) REDUNDANT CONFIGURATION SUBSTRACT THE POWER OF 1MODULE.

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NTDM - 4HS SERIES

BULK POWER PARALLEL OPERATION
HIGH POWER N+1 REDUNDANT
1500 - 12000 WATTS

230 VAC Single Phase
115/208V INPUT 3 Phase
230/385V INPUT 3 Phase

18" L x 19" W x 11.5" H
457.2 482.6 292.1 [mm]

MODEL SELECTION

1500 WATT MODULES		2000 WATT MODULES		2500 WATT MODULES		3000 WATT MODULES	
Maximum Volts/Amps per module	System Model 4 Modules	Maximum Volts/Amps per module	System Model 4 Modules	Maximum Volts/Amps per module	System Model 4 Modules	Maximum Volts/Amps per module	System Model 4 Modules
12V@125A	NTDM-4HS-12-500	CONSULT FACTORY		CONSULT FACTORY		CONSULT FACTORY	
15V@100A	NTDM-4HS-15-400						
24V@62A	NTDM-4HS-24-248	24V@83A	NTDM-4HS-24-332	24V@104A	NTDM-4HS-24-416	24V@125A	NTDM-4HS-24-500
28V@54A	NTDM-4HS-28-216	28V@71A	NTDM-4HS-28-284	28V@89A	NTDM-4HS-28-356	28V@107A	NTDM-4HS-28-428
48V@31A	NTDM-4HS-48-124	48V@41A	NTDM-4HS-48-164	48V@52A	NTDM-4HS-48-208	48V@62A	NTDM-4HS-48-248
110V@14A	NTDM-4HS-110-56	110V@18A	NTDM-4HS-110-72	110V@22A	NTDM-4HS-110-88	110V@27A	NTDM-4HS-110-108
6000W PARALLEL/4500 REDUNDANT		8000W PARALLEL/6000 REDUNDANT		10000W PARALLEL/7500 REDUNDANT		12000W PARALLEL/9000 REDUNDANT	

Note: Model information assumes a fully populated rack (4 Modules)

NTDM - 6HS SERIES

HIGH POWER N+1 REDUNDANT
1500 - 18000 WATTS

230 VAC INPUT Single Phase
115/208V INPUT 3 Phase
230/385V INPUT 3 Phase

18" L x 19" W x 17.5" H
457.2 482.6 444.5 [mm]

MODEL SELECTION

1500 WATT MODULES		2000 WATT MODULES		2500 WATT MODULES		3000 WATT MODULES	
Maximum Volts/Amps per module	System Model 6 Modules	Maximum Volts/Amps per module	System Model 6 Modules	Maximum Volts/Amps per module	System Model 6 Modules	Maximum Volts/Amps per module	System Model 6 Modules
125	NTDM-6HS-12-750	CONSULT FACTORY		CONSULT FACTORY		CONSULT FACTORY	
100	NTDM-6HS-15-600						
62	NTDM-6HS-24-372	84A	NTDM-6HS-24-504	24V@104A	NTDM-6HS-24-624	24V@125A	NTDM-6HS-24-750
54	NTDM-6HS-28-324	72A	NTDM-6HS-28-432	28V@89A	NTDM-6HS-28-534	28V@107A	NTDM-6HS-28-642
31	NTDM-6HS-48-186	42A	NTDM-6HS-48-252	48V@52A	NTDM-6HS-48-312	48V@62A	NTDM-6HS-48-372
14	NTDM-6HS-110-84	18A	NTDM-6HS-110-108	110V@22A	NTDM-6HS-110-132	110V@27A	NTDM-6HS-110-162
9000W PARALLEL/7500 REDUNDANT		12,000W PARALLEL/10,000 REDUNDANT		15,000W PARALLEL/12,500 REDUNDANT		18,000W PARALLEL/15,000 REDUNDANT	

Note: Model information assumes a fully populated rack (6 Modules)

PANEL / RACK MOUNT

PNL SERIES

PANEL MOUNT POWER SUPPLIES
AC-DC / DC-DC

AC OR DC INPUT

MODEL SELECTION GUIDE

PANEL MOUNT UNITS (AC - DC)	TS, TCP, PTCP, RSP, TDRSP, TDL, T2KOS, NTDM SERIES			
PANEL MOUNT UNITS (DC - DC)	TSD, LTBDC, TDLDC, TCPDC, XTCPDC, XTDRSP SERIES			
PANEL HEIGHT	3.5" SUFFIX (A)	5.25" SUFFIX (B)		7"SUFFIX(C)
PANEL WIDTH	19" - PNL		23" - PNLX	
OPTIONS	CIRCUIT BREAKER METER LED INDICATORS AUTO LINE SELECTION MILITARIZED / RUGGEDIZED	SUFFIX - CB SUFFIX - MTR SUFFIX - LED SUFFIX - ALS SUFFIX - MIL	* LOW VOLTAGE BATTERY DISCONNECT HANDLES ORING DIODE * 3 PHASE * POWER FACTOR CORRECTED	SUFFIX - LVBD SUFFIX - HDL SUFFIX - ORD SUFFIX - 3P SUFFIX - PFC
MODEL # EXAMPLE	SELECT THE MODEL TO BE PANEL MOUNTED. NEXT CHOOSE THE VOLTAGE AND THE CURRENT REQUIRED. NOW SELECT THE PANEL HEIGHT AND WIDTH. FINALLY CHOOSE THE OPTIONS NEEDED AND THAT'S IT! FOR EXAMPLE: TCP - PNL (A) - 24 - 25 - CB - LED -HDL IS A 24V @ 25 A TCP UNIT MOUNTED ON A 3.5"H X 19" W PANEL WITH A CIRCUIT BREAKER, LED INDICATOR AND HANDLES			

NOTE: * ONLY AVAILABLE ON SELECT MODELS
STD PANEL COLOR BLACK

RK SERIES

RACK MOUNT POWER SUPPLIES
AC-DC / DC-DC

AC OR DC INPUT

MODEL SELECTION GUIDE

RACK MOUNT UNITS AC-DC	TS, TCP, PTCP, TDL, RSP, TDRSP, T2KOS, NTDM SERIES			
RACK MOUNT UNITS DC-DC	TSD, TCPDC, TDLDC, XTCP DC SERIES			
MODULE QTY PER RACK	(1) MODULE	(2) MODULES	(3) MODULES	
RACK HEIGHT	3.5" SUFFIX A	5.25" SUFFIX B	7" SUFFIX C	
RACK WIDTH	19" - RK		23 - RKX	
OPTIONS	CIRCUIT BREAKER METERS LED INDICATORS AUTO LINE SELECTION MILITARIZED / RUGGEDIZED INPUT / OUTPUT COVER	SUFFIX - CB SUFFIX - MTR SUFFIX - LED SUFFIX - ALS SUFFIX - MIL SUFFIX - TBC	* LOW VOLTAGE BATTERY DISCONNECT HANDLES ORING DIODE * 3 PHASE * POWER FACTOR CORRECTED 400 HZ OPERATION	SUFFIX - LVBD SUFFIX - HDL SUFFIX - ORD SUFFIX - 3P SUFFIX - PFC SUFFIX - 400H
MODEL # EXAMPLE	SELECT THE MODEL TO BE RACK MOUNTED. NOW CHOOSE THE VOLTAGE AND CURRENT REQUIRED. NEXT SPECIFY THE NUMBER OF UNIT PER RACK. NEXT SELECT THE WIDTH OF THE RACK ALONG WITH THE HEIGHT. NOW SELECT THE OPTIONS NEEDED AND THAT'S IT!, FOR EXAMPLE: NTDM - RKB(2) - 28 - 55 - ORD - CBD - MIL IS E/A 28V @ 55A NTDM UNITS IN A 5.25(H) X 19" (W) RACK REDUNDANT WITH CIRCUIT BREAKERS AND RUGGEDIZED FOR SHOCK AND VIBRATION			

NOTE: * ONLY AVAILABLE ON SELECT MODELS
STD PANEL COLOR BLACK

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PLATE / WALL MOUNT

PLT SERIES

PLATE MOUNT POWER SUPPLIES
AC-DC / DC-DC

AC OR DC INPUT

MODEL SELECTION GUIDE

PLATE MOUNT UNITS (AC - DC)	TS, TCP, PTCP, RSP, TDRSP, NTDM, SERIES			
PLATE MOUNT UNITS (DC - DC)	TSD, , TCPDC, XTCPDC SERIES			
NO. OF UNITS ON PLATE	1, 2, 3 4 OR 5	NOTE: NOT ALL UNITS IN QTY. LISTED FIT ON PLATE		
OPTIONS	POWER FACTOR CORRECTION CONFORMAL COATING MILITARIZED / RUGGEDIZED	SUFFIX - PFC SUFFIX - CC SUFFIX - MIL	LOW VOLTAGE BATTERY DISCONNECT WIDE TEMP OPERATION AUTO LINE SELECTION	SUFFIX - LVBD SUFFIX - WTO SUFFIX - ALS
MODEL # EXAMPLE	SELECT THE MODEL TO BE PLATE MOUNTED (REFER TO THE SPECIFIC MODEL FROM PRODUCT PAGE LOCATED IN THIS CATALOG NEXT CHOOSE THE VOLTAGE AND THE CURRENT REQUIRED FOR YOUR APPLICATION (CHOOSE THE NUMBER OF UNITS THAT WILL BE IN PARALLEL TO ACHIEVE THE TOTAL POWER REQUIRED, 1, 2 OR 3 UNITS) NEXT SELECT THE OPTIONS REQUIRED AND THAT'S IT. FOR EXAMPLE TCP-PLT(3)-24-25-PAR-MIL IS MADE UP OF 3 EACH TCP-24-25 UNITS IN PARALLEL PROVIDING A TOTAL OF 75 AMPS ON A PLATE AND MILITARIZED FOR SHOCK AND VIBRATION.			

NOTE: CUSTOM VOLTAGE / CURRENT UNITS AVAILABLE, CONTACT THE FACTORY

WMT SERIES

WALL MOUNT POWER SUPPLIES
AC-DC / DC-DC
DC UPS

AC OR DC INPUT

MODEL SELECTION GUIDE

WALL MOUNT UNITS (AC - DC)	TS, TCP, PTCP, RSP, TDRSP, NTDM, SERIES			
WALL MOUNT UNITS (DC - DC)	TSD, , TCPDC, XTCPDC SERIES			
OPTIONS	POWER FACTOR CORRECTION CONFORMAL COATING MILITARIZED / RUGGEDIZED CIRCUIT BREAKER BATTERY BACK-UP	SUFFIX - PFC SUFFIX - CC SUFFIX - MIL SUFFIX - CB SUFFIX - BBU	LOW VOLTAGE BATTERY DISCONNECT WIDE TEMP OPERATION AUTO LINE SELECTION METERS LED / LAMPS	SUFFIX - LVBD SUFFIX - WTO SUFFIX - ALS SUFFIX - MTS SUFFIX - LED
MODEL # EXAMPLE	SELECT THE MODEL TO BE WALL MOUNTED (REFER TO THE SPECIFIC MODEL FROM PRODUCT PAGE LOCATED IN THIS CATALOG NEXT CHOOSE THE VOLTAGE AND THE CURRENT REQUIRED FOR YOUR APPLICATION (CHOOSE THE NUMBER OF UNITS THAT WILL BE IN PARALLEL TO ACHIEVE THE TOTAL POWER REQUIRED, 1, 2 OR 3 UNITS) NEXT SELECT THE OPTIONS REQUIRED AND THAT'S IT. FOR EXAMPLE NTDM-WMT(2)-28-55-PAR-MTR-MIL IS MADE UP OF 2 EACH NTDM-28-55 AMPS IN PARALLEL PROVIDING A TOTAL OF 110 AMPS IN WALL MOUNT ENCLOSURE WITH A METER AND MILITARIZED FOR SHOCK AND VIBRATION.			

NOTE: CUSTOM VOLTAGE / CURRENT UNITS AVAILABLE, CONTACT THE FACTORY

CUSTOM POWER SUPPLIES

RUGGED POWER CONVERTERS BUILT TO YOUR SPECIFICATIONS AND MORE IMPORTANTLY, BUILT TO LAST

A Proven Leader

Technology Dynamics Inc. is the leader in custom power supply design and manufacture. From a few watts to 30 Kilo Watts we design, create and manufacture Switching Power Supplies, DC-DC Converters and DC-UPS Systems for all your demanding applications.Our custom units are rugged and built to last. Like alll Technology Dynamics Inc. power supplies, they are designed and built for reliable operation in harsh and demanding environments.

Technology Dynamics Inc. custom products can be found in a wide variety of Industrial, Commercial, Military and Medical Applications. When everyone else says No, Technology Dynamics says YES!

Why Choose Technology Dynamics Inc.

Experience, we know how to make rugged, highly reliable product that outperforms the competition.

You work one on one with our Engineering group. They are in the process from beginning to end, from design to shipment.

You will move from concept to prototype to production quickly and cost effectively and you will be working with a company located here in United States.

NRE charges are reasonable and typically quoted on programs with lower production quantities although we have the capability of high volume production as well with four separate facilities in the Metropolitan Area.

On the following page are just a few examples of over 3500 designs available in our vast library of field proven designs.

Contact us today for your exact needs.

Quality You Can Count On

Technology Dynamics Inc. has been manufacturing quality AC to DC Switch Mode Power Supplies and and DC to DC Converters since 1976. With our commitment to quality, reliability, and customer service, Technology Dynamics Inc. is the only choice when it comes to your critical application. Backed by a dedicated Engineering, Production and Sales team, Technology Dynamics Inc. has been the dependable and Cost Effective solution for over 33 years. When Quality is a must, Reliability is Critical, and On Time Delivery is Crucial, Technology Dynamics Inc. stands alone.

Modified Products.

Any of the standard products offered in this catalogue can be modified mechanicaly and electrically to meet your exact needs.

"MOTS" "COTS" "ROTS"

The company offers all of its products in a ruggedized version to meet a vast array military specifications for EMI (MIL-STD-461) shock and vibration (MIL- STD-810) and other harsh and environmental conditions.

Pure Custom

The company excels at pure custom designs to all industrtial, military or commercial specifications. With over 3500 unique designs we have the exact unit to meet your expectations. Customized and custom designs are made in the range of 200W to 15KW.

TECHNOLOGY DYNAMICS INC. *100 School Street, Bergenfield, NJ 07621*

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CUSTOM POWER SUPPLIES

A VAST LIBRARY OF OVER 3500 CUSTOM DESIGNS INCLUDING....

300W SMPS
OPEN FRAME LOW PROFILE 4 OUTPUTS

300 WATTS
ULTRA FLAT DESIGN
MIL SPEC, RUGGEDIZED

150 - 300 WATTS
FULL MIL
MULTIPLE OUTPUT

500 WATTS HOT SWAP
VERTICLE PROFILE
SINGLE / MULTIPLE OUTPUT

1000 WATTS
SINGLE OUTPUT
RUGGED FOR SEVERE ENVIRONMENT

1100 WATTS HOT SWAP POWER SUPPLY
HIGH POWER
MULTI OUTPUT

1500W DC-DC CONVERTER
RACK MOUNT WITH ADJUSTMENT AND METERS

30-60 KW
BULK POWER
BURN-IN / TEST APPLICATIONS

ISO 9002
File: A5269

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MILITARY POWER SUPPLIES

"SUPPORTING ALL BRANCHES OF THE MILITARY WITH HIGH RELIABILITY PRODUCTS FOR OVER 33 YEARS"

Military Specification (Mil-Spec) power supplies require cutting edge design, extensive testing, qualification, an approved quality system, baseline process control, tight tolerances with minimum variability, as well as long-term product availability and support. Technology Dynamics Inc. possesses the R&D, engineering, new product development , manufacturing expertise and experience to continually produce High Quality, Custom Mil-Spec products now and in the future.

Utilizing field proven technology our family of Rugged Power Conversion products are used in harsh environments including Shelters, Tactical Systems, HMMWVs, Ground Support, Airborne, and Shipboard applications. Our satisfied and ongoing customers include Raytheon, Northrop Grumman, General Dynamics, Lockheed Martin, DRS, L-3Com and Harris Corp. just to name a few.

Technology Dynamics Inc. continues to provide an extensive range of Modified Standard, Semi Custom and Custom Power supplies for the Air Force, Army, Navy, Coast Guard and the Marines utilizing a variety of military specifications. Our power supplies are typically designed to meet or are compliant to one of the primary military input specifications: MIL-STD-704 (Air Force) MIL-STD-1275 (Army) and MIL-STD-1399 (Navy) and any of their revisions. Many of our power supplies are qualified to the various requirements defined in MIL-STD-810 (Environmental Test Methods), MIL-STD-461 (EMI) and MIL-STD-901 (High Impact Shock). Every power supply is 100% Burned-In and Acceptance Tested and many are put through Environmental Stress Screening (ESS) based on specific program requirements.

As a reliable source for the design and manufacturing of High Reliability MIL Spec Power supplies, Technology Dynamics Inc. continues to provide a wide variety of Power Supplies, DC-DC Converter and DC-UPS products to the Military and Sub-Contractors in some of the most demanding applications around the world.

All of the Technology Dynamics Inc. Military Power Supplies, have been designed to meet, tested or qualified to the following specifications:

MIL-STD-810	**MIL-STD-461E**	**MIL-STD-1399**	**MIL-STD-704**
MIL-STD-901	**MIL-STD-1299**	**MIL-STD-167**	**MIL-HDBK-454**

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MILITARY POWER SUPPLIES

"OVER 1000 PROGRAMS FIELDED, HUNDREDS OF DESIGNS, COUNTLESS SATISFIED CUSTOMERS"

750W HOT SWAP
RUGGED GROUND MOBILE
MIL-STD-810, EMI-461, MIL-STD-1399

3000W RUGGED HWMVEE "COTS"
MIL-STD-810, MIL-STD-461

3000W DC UPS
SHIPBOARD FULLY QUALIFIED TO
MIL-STD-810, EMI-461, MIL-STD-901
SHOCK ISOLATED

4000W REDUNDANT
MIL-STD-810, MIL-STD-461, MIL-STD-1399
RUGGED CONSTRUCTION SHOCK ISOLATED

2500W DC UPS
BATTERY BACK-UP "COTS" RACK MOUNT
MIL-STD-810, EMI-461, MIL-STD-1399

3000W LIQUID COOLED
SHIPBOARD MULTI OUTPUT
MIL-STD-810, MIL-STD-461, MIL-STD-1399

5000W DC UPS
AIRBORNE FIELD PROVEN RELIABILITY
MIL-STD-810, MIL-STD-461, MIL-STD-1399

2000W DC UPS
GROUND MOBILE HARSH ENVIRONMENT
FULLY QUALIFIED TO MIL-STD-810, EMI-461, MIL-STD-1399

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GENERAL SPECIFICATIONS

AC - DC SMPS	
INPUT VOLTAGE :	90-132 / 180-264 VAC 47- 63 Hz 1 PHASE 115/200 VAC 47- 63 Hz 3 PHASE
REGULATION:	Line ± .2% Load ± 1%
RIPPLE:	1% pk to pk not exceed 150 mvpp.
EFFICIENCY:	80% Typical (Single Output Units) 75% Typycal (Multiple Output Units)
PROTECTIONS:	OV, OL & OT
OPERATING TEMP:	0 TO 50 °C Standard -30 TO +65 °C Optional
STORAGE TEMP:	-40 TO +85 °C
COOLING:	by internal fans
MTBF:	In excess of 100,000 hours

DC - DC CONVERTERS	
INPUT VOLTAGE :	22-32 VDC / 42-56 VDC
REGULATION:	Line ± .3% Load ± 2%
RIPPLE:	1% pk to pk not to exceed 150 mV.
EFFICIENCY:	80% Typical (Single Output Units) 75% Typical (Multiple Output Units)
PROTECTIONS:	OV, OL & OT
OPERATING TEMP:	0 TO 50 °C Standard - 30 TO +65 °C Optional
STORAGE TEMP:	- 40 TO +65 °C
COOLING:	Internal DC fan
MTBF:	In excess of 100,000 hours.

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OPTIONS

OPTION	DESCRIPTION	SUFFIX
POWER FACTOR CORRECTION	HARMONIC DISTORTION CORRECTED TO 99%	- PFC
AUTO LINE SELECTION	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	- 4Hz
LOW VOLTAGE BATTERY DISCONNECT	ELECTRONIC DEVICE DISCONNECTS THE BATTERY, PROTECTING IT FROM DEEP DISCHARGE	- LVBD
PARALLEL OPERATION	MULTIPLE UNITS OPERATING TOGETHER FOR INCREASED OUTPUT POWER	- PAR
REDUNDANT OPERATION	MULTIPLE UNITS OPERATING TOGETHER FOR REDUNDANT OUTPUT POWER	- ORD
RUGGEDIZED / MILITARIZED	COMPONENT SUPPORT FOR PROTECTION AGAINST SHOCK AND VIBRATION	- MIL
HOT SWAP	BLIND INSERTION OF ACTIVE UNITS	- HS
RACK MOUNT	POWER SUPPLIES MOUNTED IN A RACK DRAW	- RK
METERS	VOLTAGE/ CURRENT METER INDICATING INPUT AND OUTPUT	- MTR
CIRCUIT BREAKER	ON / OFF OF THE INPUT OR OUTPUT	- CB
WIDE TEMP OPERATION	OPERATION FROM -30 TO + 65 C AT FULL LOAD	- WTO
CONFORMAL COATING	INTERNAL COMPONENTS COATED WITH HUMISEAL TO PROTECT AGAINST MOISTURE	- CC
INPUT / OUTPUT COVER	INPUT AND OUTPUT TERMINALS PROTECTION	- IOC
REVERSE AIR FLOW	AIR MOVEMENT IN THE OPPOSITE DIRECTION	- RAF
INPUT LINE CORD	LINE CORD CONNECTED TO THE INPUT OF THE POWER SUPPLY	- ILC
TERMINAL BLOCK INPUT	INPUT CONNECTION VIA A TERMINAL BLOCK	- TBI
PANEL MOUNT	POWER SUPPLY MOUNTED TO A PANEL	- PNL
HANDLE	MOUNTED TO A RACK FOR CASE HANDLING	- HDL
CHASSIS SLIDES	ATTACHED TO A RACK MOUNT POWER SUPPLY	- CS
BATTERY BACK-UP	POWER SUPPLIES AND BATTERIES AS A FULLY REDUNDANT SYSTEM	- BBU

NOTE: SOME OPTIONS MAY NOT BE AVAILABLE ON ALL MODELS

ORDERING INSTRUCTIONS

Specify model names and complete model numbers, including suffixes and descriptions for optional equipment. The factory or your local representative will provide assistance with assignment of model numbers. If your order is verbal, email or sent via facsimile, please send a confirming purchase order to the sales office at which the advance order was made. All confirmations should be prominently marked: "Confirmation Only-Do Not Duplicate Order".

QUOTATIONS

Inquiries are welcome concerning custom products or modifications to our standard models. Furnish Technology Dynamics with complete specifications, including quantity and delivery requirements. All written quotations will be honored for 90 days from the date on the quotations unless noted otherwise.

PRICE

All prices quoted are in U.S. dollars, F.O.B. Bergenfield, N.J. U.S.A. All applicable taxes are extra. Prices of standard products are subject to change without notice. Prices do not include shipping unless noted otherwise.

TERMS

On large military contracts, progress payment will be requested. On smaller orders, payment terms will be offered, subject to credit approval. Visa, Master Card and American Express are also accepted.

DELIVERY

Firm shipping dates are given on every order and urgent requirements often can be handled on an expedited basis. On very large orders, a shipping schedule will be arranged to suit your production schedule.

CERTIFICATE OF COMPLIANCE & TEST DATA

A Certificate of Compliance and/or test data sheets are available upon request, through our Quality Assurance Department. There is a charge for recording test data. Contact the sales department for a price quotation.

PRODUCT SPECIFICATIONS

Information and specifications contained on this website are subject to change without notice. We take no responsibility for damages incurred due to errors contained on this website.

SHIPMENT

All domestic orders are shipped by best surface route unless otherwise instructed. Express truck shipment has proven to be fast and reliable. Urgent needs can be handled via airfreight per customer instructions. Damage to equipment enroute is the responsibility of the customer and the shipper. The customer should file a claim for damages directly with the shipper. Export shipments and military packaging requirements are quoted upon request.

GOVERNMENT QUALITY ASSURANCE / SOURCE INSPECTION

Our Quality Assurance Department will be glad to work with the designated Government Quality Assurance Representative (GQAR) or customer source inspector. There is a charge for source inspection, contact the sales department for a price quotation.

WARRANTY

All Technology Dynamics products are warranted against defects in material and workmanship for a period of one year from shipping date. Our obligation includes replacing, repairing, or adjusting products (excluding fuses) that prove to be defective during the warranty period.

This warranty is fully transferable. If a product is sold to a manufacturer for use in a product for resale, the complete warranty is in force, providing the power system is sold as original equipment.

Technology Dynamics assumes no liabilities for consequential damages of any kind through the use or misuse of its products by the purchaser or others. No other obligations are expressed or implied.

REPAIRS OR REPLACEMENTS

All equipment which is apparently out of order or in need of service must be returned to Technology Dynamics prepaid. Contact the factory for a Return Material Authorization (RMA) number before you ship. We cannot accept returns without this authorization number. Products returned for warranty repair that are not shipped prepaid or shipped without an authorization number cannot be accepted at our repair facilities.

Out-of-warranty repairs will be performed by Technology Dynamics only after quoted repair charges are authorized and a formal purchase order received from the customer. If no response or purchase order to a repair quotation arrives within 2 weeks of the repair quotation date, a storage charge of $10.00 per day will be added to any out-of-warranty repair charge until such time as a response or purchase order is received.

SUPPORT

Hardware support can be reached via email at: mark@theallpower.com or by dialing (201) 385-0500, ext. 124

QUALITY CONTROL

Technology Dynamics quality system has been Registered by Underwriters Laboratories Inc. to the ISO 9001 quality management system Standard. Registration was granted after the first registration assessment. This is a testament to Technology Dynamics's years of experience with a quality control system and formal procedures that remain in compliance with MIL-I-45208A inspection and MIL-STD-45662A calibration requirements. In addition operators are certified to J-STD-001A and IPC-A-610B class 2 (formerly MIL-STD-2000) for soldered assemblies. Instructors certified by the DoD to MIL-STD-2000 category C are on staff.

MILITARY AND RUGGED COMMERCIAL DESIGNS

All of Technology Dynamics products are high quality and rugged. They are suitable for demanding commercial applications and military applications. Most products are designed to meet MIL-STD-461, MIL-STD-810, MIL-S-901, MIL-STD-167, MIL-STD-1399, and MIL-STD-1472, and other important specifications.

PROJECT MANAGEMENT

On large projects, Technology Dynamics will provide the appropriate project management to assure that the program's technical and delivery requirements are satisfied. A project engineer, who reports to the chief engineer, will be assigned to this project in the event of an order. The appropriate additional staff, including purchasing and operations management, will manage the other facets of this program. A subcontract manager at Technology Dynamics will handle all correspondence of a contractual nature.

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