



TSI MEDIA 2I 120 VAC



MODULAR INVERTER SYSTEM

POWER 1.5 kVA
INPUT 48 Vdc
OUTPUT 120 Vac
or 120/240 Vac



DESCRIPTION

The MEDIA 2I is a piggyback inverter package designed to provide a pure sine wave AC supply as a complement to any existing DC power solution.

Compact, friendly Plug & Play installation, racks-mount design ideal for low MTTR and frequently reshuffled applications. It comes with built-in protections and standard NEMA sockets eliminating the need of additional PDU's. Thanks to TSI specifics it provides outstanding power conditioning and high end availability.

APPLICATIONS

Convenient for any Mission Critical Applications. A must when any glitch matters.

The solution to power up demanding AC loads at low OPEX from a combination of AC and DC sources present on site. It reveals its full worth in harsh electrical environments and for long autonomy requirements. It handles any type of AC load including laser printers, compressors and induction motors.

Typical applications include: access network infrastructure components (BTS, RSS/Router, repeaters, LTE nodes, ...), decentralized backup source for datacenter, signaling and process monitoring.

MAIN FEATURES

- » Permanent AC to AC double conversion
- » Great disturbance rejection rate
- » Redundant AC & DC input sources
- » Source changover not visible by the load
- » Highly efficient energy conversion
- » Preserve battery life expectancy
- » Compact form factor with short depth
- » Operates until 65°C (de-rating may apply)
- » Can be used in 120 Vac and 120/240 Vac system configurations



GENERAL	
Applicable standards	IEC 61000-4 / FCC part 15 / cULus 1778 Listed / ROHS
MTBF (each module)	240 000 hrs
Efficiency (Typical): Enhanced power conversion / on line	94% / 90%
Dielectric strength DC/AC	4 300 Vdc
True Redundant Systems – compliant	3 disconnection levels on AC out and DC in power ports 4 disconnection levels on AC in port
Vibration	GR63 office vibration 0 to 100 hz-0.1 g / transport vibration 5-100 Hz 0.5 g 100 to 500 hz-1.5 g / Drop test
Altitude above sea	< 1 500 m no derating > 1 500 m – 0.8 % derating per 100 m
Ambient / storage temperature / relative humidity	-40 to 70 °C / -40° F to 158° F / 95 %, non-condensing
Operating temperature (Ambient & measured @ air inlet)	-20 to 40 °C; -4° F to 104° F for rated power ⁷ 40° C to 65° C with 2% / °C derating ¹ 104° F to 149° F with 1% / °F derating ¹
Operating environment / Ingress Protection	Free from dust and corrosive materials / NEMA 1 ²
Material (casing)	Coated steel-ALU ZINC
DC INPUT SPECIFICATIONS	
Nominal voltage (DC) / Voltage range	48 V / (40 -58 V)
Voltage ripple	< 2 mV Psopho
Input voltage boundaries	40 V to 57 V user selectable
DC input protections	No. 1 40 Amps MCB per module
AC INPUT SPECIFICATIONS	
Voltage range (AC) (Full power rating)	100 – 140 Vac
Brownout range and behavior	80 – 104 Vac use DC source contribution if need be (can be disabled)
Conformity range before transfer to DC	Adjustable from 80 to 138 Vac
Power factor	> 99%
Frequency range (selectable) / synchronization range	50 – 60 Hz / range 47 – 53 Hz / 57 – 63 Hz
AC OUTPUT SPECIFICATIONS	
Admissible load power factor	Full VA power rating from 0 inductive to 0 capacitive Limited to W power rating from Pf 0,8 to 1
Frequency / frequency accuracy	50 - 60 Hz / 0.03 %
Total harmonic distortion (resistive load)	< 1.5 %
Load impact recovery time	0.4 ms
Turn on delay	30 s
Short duration overload capacity	150 % - 15 s
Long duration overload capacity	110 % permanent
Crest factor at nominal power. With short circuit management and protection	3.1
Short circuit clear up capacity ³	10 x I _n for 20 ms
Short circuit clear up capacity when AC is not present	1.5 x I _n for 15 s
ENERGY SOURCE CHANGEOVER	
Total transient voltage duration (max) (as seen from the load)	0 s (and no glitch)
Maintenance Bypass (MBP)	No
SIGNALING & SUPERVISION	
Display	LED w/module status and power bargraph + [OPTIONAL] CANDIS Display (1/ph)
Alarms output / supervision	No.3 Dry Contacts (Maj, Min, User adj)
Remote Monitoring	[OPTIONAL] TCP-IP with SNMP V1
Remote on / off	via T2S controller

TSI MEDIA 2i – Datasheet v1.0 Specifications can change without notice. New data will be updated on our Web site: www.cet-power.com. The present equipment is protected by several international patents, trademarks and copyrights.

- 1 Operation beyond 40°C (104°F) and derating are not UL certified
- 2 Specific execution can be provided on request
- 3 While the boost function is enabled and AC source present
- 7 Internal temperature management and switch off

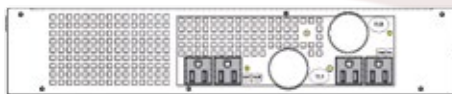


	MEDIA 2I 1PH UL Listed	MEDIA 2I 1PH - UL pending	MEDIA 2I 2PH UL Listed	MEDIA 2I 2PH - UL pending
GENERAL				
Nominal voltage (AC) Input & Output	120 Vac L-N	120 Vac L-N	120 Vac L-N / 240 Vac L-L (120 Vac / 208 Vac ORQ)	120 Vac L-N / 240 Vac L-L (120 Vac / 208 Vac ORQ)
Nominal Output power (VA) / (W) (when fully populated)	3 kVA / 2,4 kW	6 kVA / 4,8 kW	3 kVA / 2,4 kW	6 kVA / 4,8 kW
CURRENT SPECIFICATIONS				
Nominal AC output current. Protected against reverse current	25 A	50 A	13 A per phase	25 A per phase
Short circuit current after clear up capacity	28 A	55 A	14 A per phase	28 A per phase
Nominal DC current (at floating voltage and 2000W per module output)	56 A	111 A	56 A	111 A
Nominal AC input current ⁽⁶⁾ (at 120Vac and 2000W per module output)	22 A	43 A	11 A per phase	22 A per phase
SELECTABLE OPTIONS				
Bulk Output				
DC input connection ⁽⁶⁾ ⁽⁸⁾	Anderson PowerPole connectors			
AC input connection / protection ⁽⁶⁾	Terminal block / none Terminal block / none			
AC output connection / protection ⁽⁶⁾	block / none			
w/NEMA socket (5-15R) Outline #1				
DC input connection ⁽⁶⁾	Anderson PowerPole connectors			
AC input connection / protection ⁽⁶⁾	Terminal block / none			
AC output connection / protection ⁽⁶⁾	4 x NEMA socket (5-15R) / 15 A MCB ea.	2 x 4 x NEMA socket (5-15R) / 15 A MCB ea.	n/a	n/a
w/NEMA socket (5-15R) & Twist Lock (L14-20R) Outline #2				
DC input connection ⁽⁶⁾	n/a	n/a	Anderson PowerPole connectors	Anderson PowerPole connectors
AC input connection / protection ⁽⁶⁾	n/a	n/a	Terminal block / none	Terminal block / none
AC output connection / protection ⁽⁶⁾	n/a	n/a	2 x NEMA socket (5-15R) / 15 A MCB ea. 1 x Twist-Lock (L14-20R) / 15 A MCB 2 pole ea.	2 x 2 x NEMA socket (5-15R) / 15 A MCB ea. 2 x Twist-Lock (L14-20R) / 15 A MCB 2 pole ea.
w/ Twist Lock (L14-20R) Outline #3				
DC input connection ⁽⁶⁾	n/a	n/a	Anderson PowerPole connectors	Anderson PowerPole connectors
AC input connection / protection ⁽⁶⁾	n/a	n/a	Terminal block / none	Terminal block / none
AC output connection / protection ⁽⁶⁾	n/a	n/a	2 x Twist-Lock (L14-20R) / 15 A MCB 2 pole ea.	2 x 2 x Twist-Lock (L14-20R) / 15 A MCB 2 pole ea.

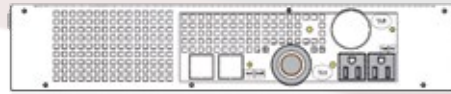
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6 Refer to specific document for NEC compliance for external protections and cable sizing
8 DC cable size not NEC compliant for infrastructure connection. Used for system internal wiring only.
n/a Option not available

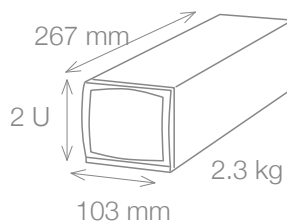
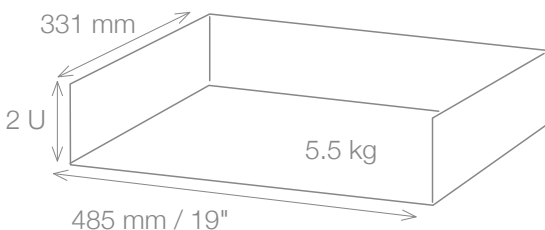
Outline #1



Outline #2



Outline #3



Illustrations are non-binding and may include customized fittings.