



# Media 2i Modular Inverter System

3 kVA, 120 VAC

- Telecom
- Datacom
- Mass Transit
- Oil & Gas
- Utilities



Media 2i

## Product 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 technology, it provides outstanding power conditioning and high-end availability.

## Product 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
- 2U compact form factor with short depth
- Operates until 65°C/149°F (de-rating may apply)
- Can be used in 120 VAC and 120/240 VAC system configuration

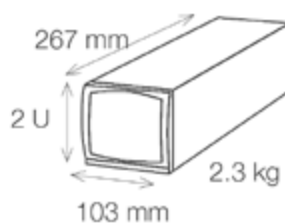
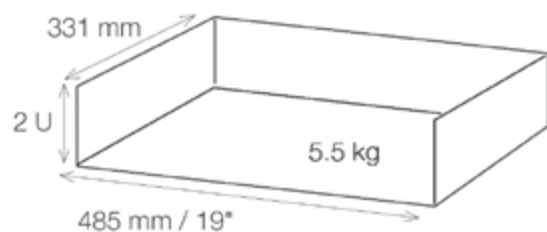
## Applications

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.

General Specifications	
<b>Applicable standards</b>	IEC 61000-4 / FCC part 15 / cULus 1778 Listed / RoHS
<b>MTBF (each module)</b>	240,000 hours
<b>Efficiency (typical): Enhanced power conversion / on line</b>	94% / 90%
<b>Dielectric strength DC/AC</b>	4,300VDC
<b>True redundant systems - compliant</b>	(3) disconnection levels on AC out and DC in power ports (4) disconnection levels on AC in port
<b>Vibration</b>	GR63 office vibration 0-100Hz-0.1 g / transport vibration 5-100Hz-0.5g / 100-500Hz-1.5g / Drop test
<b>Altitude</b>	<1,500m no derating / >1,500m – 0.8% derating per 100m
<b>Ambient / storage temperature / relative humidity</b>	-40 – 70°C (-40 – 158°F) / 95% non-condensing
<b>Operating temperature (Ambient &amp; measured at air inlet)</b>	-20 – 40°C (-4 – 104°F) for rated power (7) 40 – 65°C with 2% /°C derating (1) 104 – 149°F with 1% /°F derating (1)
<b>Operating environment / ingress protection</b>	Free from dust and corrosive materials / NEMA 1 (2)
<b>Material (casing)</b>	Coated steel-ALU ZINC

DC Input Specifications	
Nominal voltage (DC) / voltage range	48V / (40 – 58V)
Voltage ripple	<2mV Psopho
Input voltage boundaries	40 – 57V user selectable
DC input protections	(1) 40A MCB per module
AC Input Specifications	
Voltage range (AC) (full power rating)	100 – 140VAC
Brownout range and behavior	80 – 104VAC use DC source contribution if need be (can be disabled)
Conformity range before transfer to DC	Adjustable from 80 – 138VAC
Power factor	>99%
Frequency range (selectable) / synchronization range	50 – 60Hz / range 47 – 53Hz / 57 – 63Hz
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 – 60Hz / 0.03%
Total harmonic distortion (resistive load)	<1.5%
Load impact recovery time	0.4ms
Turn on delay	30s
Short duration overload capacity	150% - 15s
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 In for 20ms
Short circuit clear up capacity when AC is not present	1.5 x In for 15s
Energy Source Changeover	
Total transient voltage duration (max)	0s (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 (Max, Min, User adj)
Remote monitoring	(OPTIONAL) TCP-IP with SNMP V1
Remote on / off	via T2S controller



- (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
<b>General</b>				
Nominal voltage (AC) input & output	120VAC L-N	120VAC L-N	120VAC L-N / 240VAC L-L (120VAC / 208VAC ORQ)	120VAC L-N / 240VAC L-L (120VAC / 208VAC ORQ)
Nominal output power (VA) / (W) (when fully populated)	3kVA / 2,4kW	6kVA / 4,8kW	3kVA / 2,4kW	6kVA / 4,8kW
<b>Current Specifications</b>				
Nominal AC output current. Protected against reverse current	25A	50A	13A per phase	25A per phase
Short circuit current after clear up capacity	28A	55A	14A per phase	28A per phase
Nominal DC current (at floating voltage and 2000W per module output)	56A	111A	56A	111A
Nominal AC input current <sup>(5)</sup> (at 120Vac and 2000W per module output)	22A	43A	11A per phase	22A per phase
<b>Selectable Options</b>				
<b>Bulk Output</b>				
DC input connection <sup>(6)</sup> / <sup>(8)</sup>	Terminal block			
AC input connection / protection <sup>(6)</sup>	Terminal block / none			
AC output connection / protection <sup>(6)</sup>	Terminal block / none			
<b>w/NEMA Socket (5-15R) Outline #1</b>				
DC input connection <sup>(6)</sup>	Terminal block	Terminal block	N/A	N/A
AC input connection / protection <sup>(6)</sup>	Terminal block	Terminal block	N/A	N/A
AC output connection / protection <sup>(6)</sup>	4 x NEMA socket (5-15R) / 15A MCB ea.	2 x 4 x NEMA socket (5-15R) / 15A MCB ea.	w/N/A	N/A
<b>w/NEMA Socket (5-15R) &amp; Twist Lock (L14-20R) Outline #2</b>				
DC input connection <sup>(6)</sup>	N/A	N/A	Terminal block	Terminal block
AC input connection / protection <sup>(6)</sup>	N/A	N/A	Terminal block / none	Terminal block / none
AC output connection / protection <sup>(6)</sup>	N/A	N/A	2 x NEMA socket (5-15R) / 15A MCB ea. 1 x Twist-Lock (L14-20R) / 15A MCB 2 pole ea.	2 x 2 x NEMA socket (5-15R) / 15A MCB ea. 2 x Twist-Lock (L14-20R) / 15A MCB 2 pole ea.
<b>w/Twist Lock (L14-20R) Outline #3</b>				
DC input connection <sup>(6)</sup>	N/A	N/A	Terminal block	Terminal block
AC input connection / protection <sup>(6)</sup>	N/A	N/A	Terminal block / none	Terminal block / none
AC output connection / protection <sup>(6)</sup>	N/A	N/A	2 x Twist-Lock (L14-20R) / 15A MCB 2 pole ea.	2 x 2 x Twist-Lock (L14-20R) / 15A MCB 2 pole ea.

(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**

### Ordering Information

Model No.	Description
Media 2i	3kVA, 120VAC Modular Inverter System