

## Rectiverter Integration /Standalone System 220 VDC, 3 kVA 1ph

The Rectiverter integration/standalone system can be used in applications where a 230/115 VAC backup is needed in parallel with the 220 VDC backup. The system can be integrated into an Eltek DC system and connected to the same controller as the 220 VDC system

It can also be used as a standalone system connected to any available 220 VDC source.

The total output power for both AC and DC output is limited to max 4 kW. AC and DC output limits can be set according to the attached load, where the limitation for AC load is set to max 3 kVA.



# **Rectiverter Integration/Standalone System**

Up to 3 kVA AC & up to 2,4 kW 220 VDC output

Doc CTOR0201220.DS3 - rev 1

#### MODULAR ARCHITECTURE RECTIVERTER MODULE

The 3 port converter simultaneously provides power for AC and DC loads. During mains outage the Rectiverter feeds AC loads using energy stored in the battery.

The modular architecture, industry-leading efficiency, compact size, innovative design and comprehensive monitoring and control features provide significant benefits over the current industry standard.



APPLICATIONS

#### **TELECOM-MOBILE/WIRELESS**

- LTE/4G/WiMAX
- Distributed antenna system
- Broadband
- Radio base stations/cell sites

#### **RAILWAY & METRO INFRASTRUCTURE**

- Control & protection
- Signaling
- GSM-R
- Safety Systems

#### POWER UTILITIES

- Control & protection
- SCADA system

### **KEY FEATURES**

- 230 VAC INPUT/OUTPUT
- SINGLE PHASE INPUT/OUTPUT
- 220 VDC INPUT/OUTPUT
- 4 KW TOTAL AC + DC OUTPUT
- MAX 3 KVA AC OUTPUT
- MAX 2,4 KW DC OUTPUT
- 2 POLE AC DISTRIBUTION
- 3\*IEC SOCKETS ON FRONT
- BUILT IN TRANSFER TECHNOLOGY
- 150% OVERLOAD CAPABILITY, 15S
  - 600% QUICK TRIP CURRENT, 20MS
  - HOT PLUGGABLE
  - CAN OPERATE IN PARALELL WITH FLATPACK2 RECTIFIERS
  - CAN BE INTEGRATED INTO ELTEK DC SYSTEM CONNECTED TO THE SAME CONTROLLER
- GLOBAL COMPLIANCE
- PATENTED HE TECHNOLOGY

Rectiverter Module

### Rectiverter Integration/Standalone



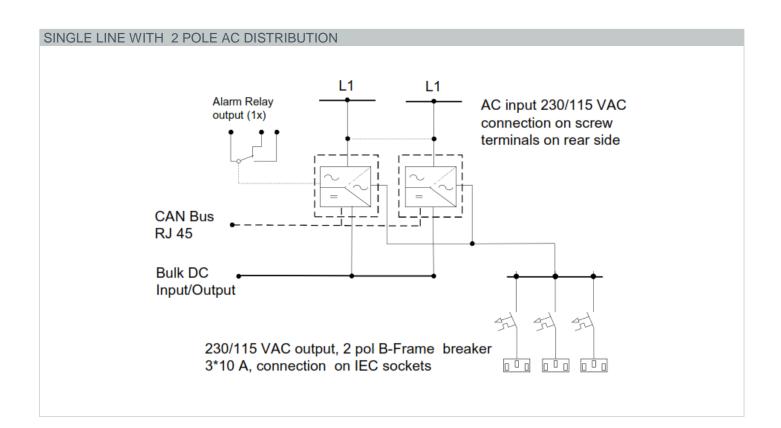
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KW / 2 KW TOR0201.00X 85-275 / 95-140 V
85-275 / 95-140 V
85-275 / 95-140 V
00 = 0 0 0 0 0 0 0
80-290 V
4-24 A
7-53 / 57-63 Hz
0.99
00-240 / 100-127 V
94-290 V
,0/1,5 kVA
,4/1,2 kW
Ind. To 0 Cap.
0Hz, 60 Hz
*10 A
ont connection



Specifications are subject to change without notice





## **Rectiverter Integration/Standalone**

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2	<b>ELTEK</b>
	A Delta Group Company

Models / ordering information	4 kW, 230 V	2 kW, 115 V	
Part number	CTOR0201.003	CTOR0201.006	
AC OUTPUT DATA			
Voltage (default) / (adjustable range)1)	230 V <sub>AC</sub> / 200 - 240 V <sub>AC</sub>	115 $V_{AC}$ / 100 - 127 $V_{AC}$	
Frequency (default inverter mode)	50 Hz (adaptive)	60 Hz (adaptive)	
Frequency (set-able inverter mode)	50Hz, 60Hz or last synced 50/60Hz (adaptive)		
Power maximum (continuous / overload (<15s))	2400 W (3000 VA) / 4000 VA	1200 W (1500VA) / 2000 VA	
Current maximum (continuous / overload (<15s))	13Arms / 17,4Arms		
Current (maximum) Quick trip (20ms)	64 A (6 x nominal)		
Hold up (Voltage dips) (before switching to battery)	5 ms		
THD	< 1.5 % at resistive load		
Output features	Fuse in L and N	l, Hot pluggable	
DC OUTPUT DATA			
Voltage (default) / (adjustable range)	245 V <sub>DC</sub> / 19	94 - 290 V <sub>DC</sub>	
Power (maximum @nominal input)	2400 W <sup>2)</sup>	1200 W <sup>2)</sup>	
Current (maximum @nominal output V <sub>DC</sub> )	11,1 A <sup>2)</sup>	5,5 A <sup>2)</sup>	
Hold up time, maximum output power	>10ms; V <sub>0</sub>	л > 95 V <sub>DC</sub>	
Output features	Short circuit proof, Over voltage Shutdown, Bulk DC output connection to M6 bolt		
INPUT DATA			
AC Mains Input Voltage (single phase)	185 - 275 V <sub>AC</sub>	95 - 140 V <sub>AC</sub>	
AC Current (at nominal output voltage) (depending on mo	odule type) 14-2	24 A <sub>RMS</sub> <sup>4)</sup>	
Frequency (default: sync range)	47-53 & 57-63 Hz	57-63 & 47-53 Hz	
Frequency (set-able: sync range)	47-53 Hz, 57-63 Hz	z or both (adaptive)	
Power Factor / THD	> 0.99 at 50% load or more / < 3.5%		
DC Voltage nominal / extended range (no overload) <sup>3)</sup>	204 - 290 V <sub>DC</sub> / 180 - 204 V <sub>DC</sub>		
DC Current (maximum)	13,3 A / 18 A during overload (15s)	6,4 A / 9 A during overload (15s)	
Input features	Fuse in L and N, Hot pluggable, Varistor, Hot pluggable AC input individual screw terminals 6 mm2 for L, N & PE Bulk DC input connection to M6 bolt		
OTHER SPECIFICATION			
Support for connection to following controller (RJ45)	Smartpack2, Smartpack S & Compack controllers		
Efficiency	>96% (mains mode (AC/AC and AC/DC)), >94% (inverter mode (DC/AC))		
2 pole AC distribution (connection IEC 320-C13 sockets)	3pc, 10A, OP characteristics (optional 4-8 A breaker with CS characteristics available)		
Protection Class	IP 20		
Operating temperature	-40 to +55°C (+40 to +131°F), humidity 5 - 95% RH non-condensing		
Storage temperature	-40 to +85°C (-40 to +185°F), humidity 0 - 99% RH non-condensing		
Dimensions[WxDxH] / Weight	482 x 395 x 44mm (1U) (19 x 17 x 1,8") / 6kg (13 lbs)		
DESIGN STANDARDS			
Electrical safety	EN 60950-1, EN 62040-1		
EMC	ETSI EN 300 386 V.1.6.1, FCC CFR 47 Part 15 EN 61000-6-1/-2/-4/-5 EN62040-2 (Cat C1 emmisions, cat C2/C3 immunity)		
Environment	ETSI EN 300 019: 2-1 (Class 1.2) & 2-2 (Class Normal operating conditions as per IEC/EN 620 Other operating conditions as per IEC 62040-3 2011/65/EU (RoHS) & 2012/19/EU (WEEE)	040-3:2011 clause 4.2.	
<ol> <li>Output voltage ranges configured in factory and have individual keying in 3) Reduced performance - no power boost and increased voltage THD on AG</li> </ol>	C output. load and AC input voltage; i.e maximum	able DC output power and current is dependent on instan 1600W at full AC power and nominal input for 230V <sub>AC</sub> . he input current may increase above this level	

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