

## IGBT SINGLE BRANCH RECTIFIER TYPE COMPACT ECOLINE RCK5U

AC/DC MODULE



AC/DC MODULE-REAR

### MAIN FEATURES

- Power device conversion: IGBT
- Control type: PWM HF
- Incoming isolation transformer at mains frequency: OK
- Electrostatic shield: OK
- uP of supervision
- LCD with backlit alphanumeric display and LED status
- Charging curve for each battery type
- High efficiency
- High reliability
- **Extractable 5U rack-format AC/DC module for quick and easy assistance thanks to polarized extractable connectors**
- Easy maintenance with access from the front
- Low output ripple
- Extended frequency input range
- Output overload indication
- Acknowledgeable audible alarm
- Accessed from the rear for I/O clamps and relay alarms card

### APPLICATION FIELDS

- Oil & Gas
- Energy
- Process control
- Transport
- Security

TYPE		COMPACT ECOLINE RCK5U		
OUTPUT	NOMINAL VOLTAGE with 1Ph supply	24	48	110
	CURRENT RANGE with 1Ph supply	5 ÷ 60A		
	CURRENT RANGE with 3Ph supply	10 ÷ 60A		
	RIPPLE NOISE (RMS)	≤ 0.5% Vn		
	ADJ. VOUT RANGE	+/- 5%		
	STABILITY	+/- 1%		
	ADJ. FOLLOWING THE CHANGE Vinp.	+/- 1%		
	ADJ. FOLLOWING THE CHANGE ILoad	+/- 1%		
START-UP time	2 sec.			
INPUT	NOMINAL VOLTAGE	230 +/- 10% or 400 +/- 10% (1Ph or 3Ph)		
	FREQ.	50 ÷ 60 +/-7%		
	EFFICIENCY (Typ.)	≥ 90 %		
	ISOLATION I/O	4kV WITH TRANSFORMER		
PROTECTION	OVERLOAD	2In x 5mS Shut down per 250mS - restart aut.		
	CURRENT TYPE	Constant		
	OVP	+ 10% Vn		
	UVP	- 50% Vn		
	OVERTEMP.	Shut down. Restart aut.		
ALARMS SPDT 5Amp/250Vac	INCOMING MAINS FAILURE	LOW VOLTAGE BATTERIES		
	GENERAL FAILURE			
ENVIRONMENT	WORKING TEMP	-10 .....+40°C		
	WORKING HUMIDITY	20 .....90% (NO COND.)		
	STORAGE TEMP.	-20 .....+50°C		
STANDARDS	MARKING	CE		
	PROTECTION DEGREE	IEC 60529		
	EMC	EN 61000-6-2 EN 61000-6-4		
	STATIC CONVERTER	EN 60146-1-2		
	VENTILATION	Iout= 5÷20Amp NATURAL Iout= 21÷60Amp FORCED		
DIMENSIONS (W*H*D) mm with handle and rear clamps		5U rack type 482 x 485 X 221		
DIMENSIONS (W*H*D) mm without handle and rear clamps		5U rack type 482 x 425 X 221		
PROTECTION DEGREE		IP20		
PAINT FRONT PANNEL - INDICATIVE WEIGHT		RAL 7035 - 15Kg		

### LED STATUS

System ok (green)  
System failure (red)

### ELECTRICAL MEASUREMENTS ON DISPLAY

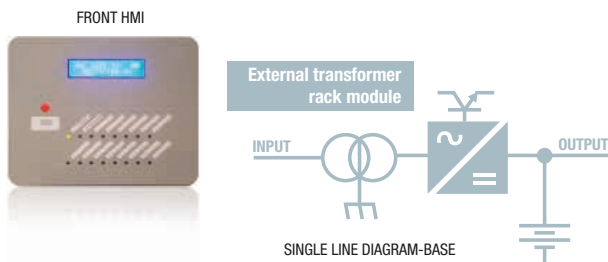
Output voltage  
Output current

### DISPLAY STATE MESSAGES

Rectifier ON  
Boost Charge ON (Optional)  
Manual Charge ON (Optional)  
Overload  
Battery Mode  
Low Volt. Batt.  
End. Batt. Aut.  
Vout. Rect. Max

### MULTIFUNCTION PUSH-BUTTON

Acknowledgeable audible alarm



### OPTIONS

UP card for function AUT/MAN BATTERY TEST	UP card for function DC EARTHED PROBE (with polarity discrimination +/- )
UP card for function BOOST & MANUAL CHARGE	COMMAND FOR EXTERNAL END DISCH. POWER CONTACTOR (LVBD)
UP card for function TEMP. COMPENSATION	
External Temp. probe (3mt. cables max)	