

infinitem R1/R2 Rectifier Box

Over 35 years' experience in the design and supply of off-grid Solar Energy Systems. TSS has used this experience to develop 24 Vdc and 48 Vdc rectifier boxes for solar hybrid energy systems. As part of the infinitem range, it manages the multiple energy sources.



Cost effective battery charging

Customizable design with adjustable output voltage, current and power. 3-phase AC input and scalable output up to 10kW.

Small and large rectifier

Modular design allowing future expansion. Adapting the correct capacity to your requirement at any time.

Protections

Protecting short circuit, overload, over-voltage, over- temperature and fan failure.

infinitum R1/R2 Rectifier Box

Electrical characteristics	R1 - 24 Vdc	R1 - 48 Vdc	R2 - 48 Vdc
Supply voltage 3ph+N	340 - 530 Vac		
Frequency	47 - 63 Hz		
Maximum efficiency	91 %		
Nominal output voltage	24 Vdc	48 Vdc	48 Vdc
Maximum output current	200 Adc	105 Adc	210 Adc
Maximum output power	4,800 W	5,040 W	10,080 W
Incoming MCB	16A-4ph	16A-4ph	20A-4ph
Protections	Short circuit, over load, over voltage, over temperature, fan fail		

Monitoring and control	R1 - 24 Vdc	R1 - 48 Vdc	R2 - 48 Vdc
Voltage control range	24.0 - 28.8 Vdc	48.0 - 57.6 Vdc	48.0 - 57.6 Vdc
Current control range	20 - 100 %		
Remote control	On/Off		
Alarm output <i>(over temperature - fan failure - AC input failure)</i>	NO relay contact & LED indication		
DC output OK	NO relay contact & LED indication		
NO relay contact	30 Vdc / 1A		

Cable entry	
Input power cable	1x M25
Output power cable	6x M32

General specifications	
Operating temperature	-20° C to +60° C
Storage temperature	-30° C to +85° C
Enclosure material	GRP
Dimensions (H x W x D)	800 x 600 x 300 mm
Unit weight	R1 - 40 kg, R2 - 50 kg
Mounting	Indoor and outdoor
IP degree	IP55
Approvals	CE
Standards	IEC 61000-6-2, EN 55024



**a sustainable versatile modular
power energy system**