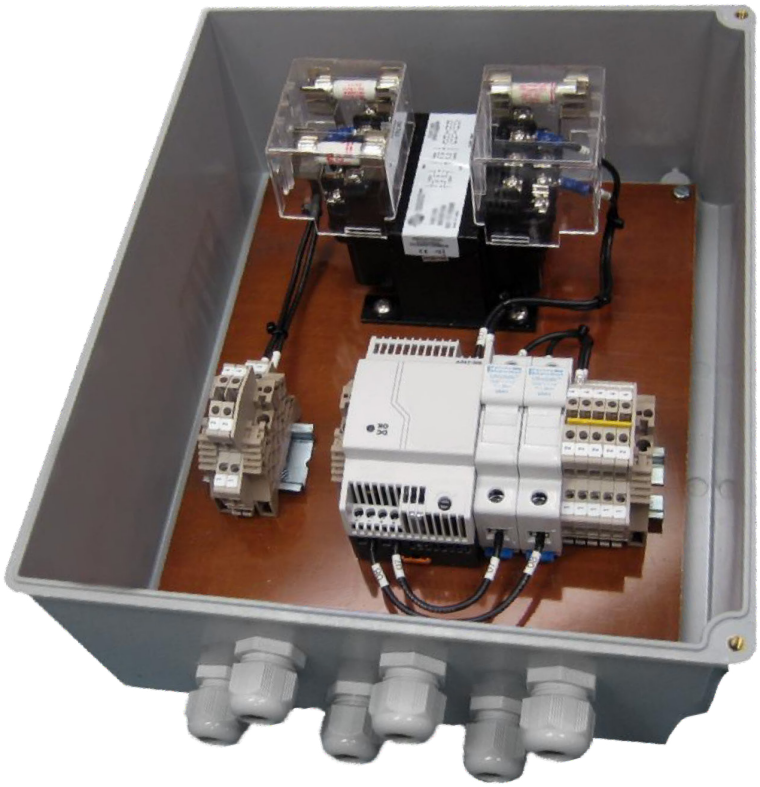
R2 POWER PACK – MODA (EH500) ACCESSORY

OVERVIEW

- Double Insulated Power Supply
- IP66 Rating
- Built for Harsh Environments
- Provides Power Supply for up to 5 **MODA (EH500)**
- Evaluation of cell component health before energizing



SAFE AND STABLE POWER SUPPLY

Following recent research, R2 has found that insightful indication of the component health can be observed while the electrolyzer is completely idle (i.e. no polarisation current). To view and record these very low voltage behaviors, the voltage acquisition units **(MODA)** are required to be powered independantly. Standard industrial power supplies cannot be used because they do not provide a sufficient level of electrical isolation.

R2's solution is the **MODA** External Power Pack: a double insulated module capable of providing safe and stable power supply for up to (5) **MODA** units. Other models exist for up to (6) **MODA**s, and up to (8) **MODA**s.

The **MODA External Power Pack** IP66 rating allows it to be installed in a harsh environment such as a cell-house.

Certified to IEC 61010-1, the Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use; the **MODA External Power Pack** is designed, built and tested expressively to provide the required electrical safety for the **MODA**s installed on the electrolyzer.

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R2 POWER PACK – MODA (EH500) ACCESSORY

TECHNICAL SPECIFICATIONS

General	
Supply Input Range:	120VAC or 240VAC, 50/ 60Hz
Current Consumption:	105VA @ 120VAC or 210VA @ 240VAC
Electrical Isolation:	600V CAT II I, 1000V CAT II
Supply Output:	5x 24VDC (30W)

Environmental	
Operating Temperature:	-20 to 40°C
Storage Temperature:	-20 to 60°C
Altitude:	2000m max.

Approvals
cTÜVus
CE

Mechanical	
Weight:	4. 5 Kg (10 lbs)
IP Rating	IP66
Dimensions W x H x D (mm)	300mm x 250mm x 150mm (12” x 10” x 6”)

Standards
IEC 61010-1 Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use

ORDERING INFORMATION

Part Number	Description
EH180-120	MODA External Power Pack with (5) outputs for 120Vac operation.
EH180-140	MODA External Power Pack with (5) outputs for 240Vac operation.

ACCESSORIES & SPARE PARTS

Part Number	Description
EH160-1	Spare Switched Mode Power Supply 120/240 Input 24VDC Output @ 1.75A
EH137-1	EH180 Spare Fuse Kit (2 Primary, 2 Secondary)

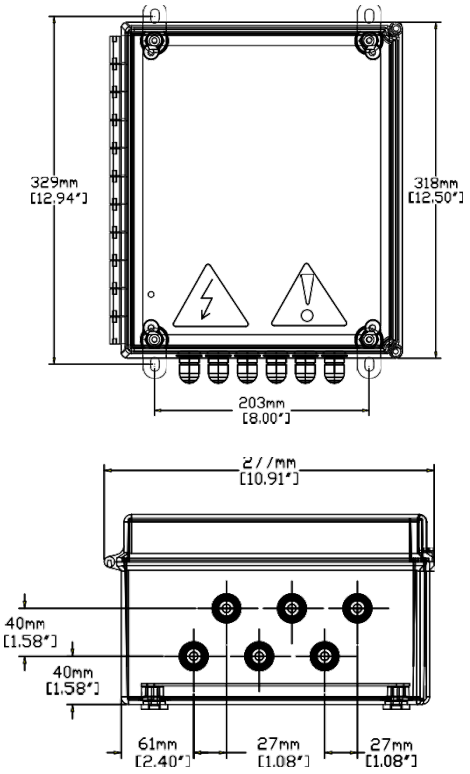
OTHER RELATED PRODUCTS

Part Number	Description
EH181	MODA External Power Pack (6)
EH183	MODA External Power Pack (8)

ADDITIONAL INFORMATION

*R2’s External Power Pack is part of the **R2 EMOS SIL2 SAFETY-MAINTENANCE & OPTIMIZATION SYSTEM**. Contact R2 for more information.*

DIMENSIONAL DRAWING



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