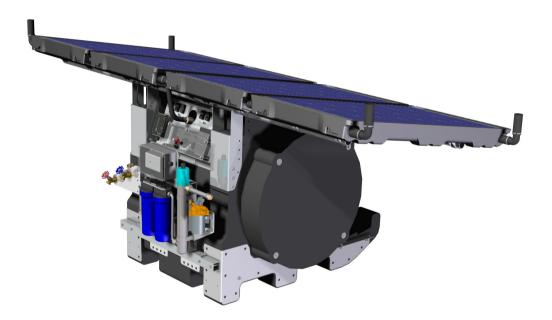
POWERPANEL[™]



Solar Powered Electricity Hot Water•Water Filtration



Emergency Response Humanitarian Aid Off-Grid Living



powerpanel.com





From Box to Operational in less than 2 hours





Solar Powered Electricity, Hot Water, Potable Water in one device.



The Ukraine War has been devastating for its people since the onset in February 2022. The Rocky Mountain Aid Foundation deployed two Gen₂O portable units to support both front line responders and humanitarian efforts.







PORTABLE



On September 16, 2017, a Category 5 hurricane Maria devastated the northeastern Caribbean, particularly Puerto Rico. Good 360 along with Crisis Response International and RG Resource Technologies, sent a Gen₂O portable to Dos Bocas, a community in the mountains.

Three families homes shared the electricity the Gen₂O supplied through solar power.









P○WERPANEL[™]

Video from Ukraine with English Subtitles



The community of 24 enjoyed hot showers thanks to the Gen₂O's capacity to heat and store hot water.





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PORTABLE

POWER PANEL

Dimensions and Capacities

Reference Part Number **Deployed** Dimensions Stowed Dimensions (Local Transport) Fork Truck Lift Access - Rear of Unit Pallet Jack Access - Side of Unit Overhead Crane Lift Capability Dry Weight (no fluid) PVT Module weight (4 pcs) Unit Weight- Modules Removed Operational Weight (filled with water - 50 gal) Shipping (single unit) Shipping (volume purchases - Knock Down Kit)

PPGM0104.04

56 x 121 x 54 inch tall [1,422 x 3,073 x 1,372 mm] 56 x 52 x 52 inch tall [1,422 x 1,321 x 1,321 mm] 6 inch wide fork maximum - 24 inch outer width 28 inch wide - dual 10.5 inch wide slots YES with assembly in Dry Weight Condition 450 lbs [204 kgs] 52 lbs x 4pcs = 208 lbs [94.5 kgs] 242 lbs [110 kgs] 891 lbs [404 kgs] 60 x 60 x 60 inch wood palletized crate - 720 lbs 20 units per 40 foot ISO Container - 10,250 lbs

Energy Generation and Storage



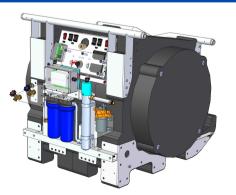
Electrical Generation DC peak at STC PV Cell Module Voc Module Isc Electrical Energy Storage Electrical Charge Control Thermal Generation (peak Delta T = 0) Module Intercept per ISO 9806 a 1 slope per ISO 9806 Thermal Energy Storage Tank Volume Storage Type Max Rated Storage Temperature Energy Storage

540 Watts HJT N type - 28 cells in series per module 19.1 Volts DC 9.38 Amps DC 2,400 Watt hour - Two 12 volt AGM in parallel Two Morningstar SS-20L (PWM Type) 2,540 Watts 0.751 3.570 Watts per m2 deg K 52 gal [200 liters] Unpressurized 80 deg C [176 Deg F] 8,100 Watt hour at 35 deg C Delta T

Construction

Thermal Storage Tank Heat Exchanger Racking Mounting and Attachment brackets Thermal Control

Structure and Insulation Expanded Polypropylene Foam (EPP) Density = 48 gram per liter [3 PCF] Insulation Value Thermal Storage System = R24 **Rotomolded Polyethylene** Four -Parallel Loops PEX Tubing - 400 ft x 3/8 inch Schedule 40 aluminum Pipe - 4 removable sections 0.125 inch 3004 aluminum Embedded Control WiFi enabled Microprocessor Control Type Differential Temperature Monitoring Type Web based MQTT architecture 12 VDC - Washdown Rated Thermal Circulation Pump Carling V Charger : USB type 2 - 8 Charge Ports Electrical Accessories Switch controlled 20 amp AUX cable



Water Filtration and Distribution

Water Filtration Module Reference Part Number PPPL0532.0

Primary Filter 5 micron sediment Secondary Filter 5 Micron Activated Carbon UV Sterilization Wyckomar UV250 UV Dosage 40 mJ/cm2 at 4.2 GPM [15.9 LPM] Water Intake Pump 12 VDC - 9 ADC Stainless Well Pump Pump Output 4 GPM [15.1 LPM] Pump Hose 1/2 inch PEX tubing Water Distribution Pump 12 VDC Pressure Demand Pump Output 3.2 GPM [12.1 LPM] Distribution Hoses Three - 25 foot high purity 3/4 inch hoses Hose Connections 3/4 inch Garden Hose Thread

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