BEAM

EV ARC™ 2020

The EV ARC™ 2020 from Beam Global is the only rapidly deployed, 100% renewable, transportable but permanent EV charging solution. Grid independent, it deploys in minutes with no permitting, no construction, no electrical work and no utility bill. It will charge electric vehicles with the EV charger brand of your choice, even during grid outages.

Sustainable EV Charging

Each EV ARC™ system generates and stores its own electricity and tracks the sun to generate up to 25% more energy. Battery storage allows you to charge during the night, inclement weather and power outages. It fits inside a standard parking space and because vehicles easily park on the base pad you won't lose a single spot. Reaching as many as 12 vehicles, you can charge up to six EVs at the same time.

Join organizations like Google, New York City and Caltrans who are Driving on Sunshine.



EV Charging Deployed in Minutes Not Months

- **Rapidly Scalable**
- **No Construction, No Electrical Work**
- **Any Brand Charger, Pre-Mounted**
- **Charge 24/7: Night, Rain, Grid Failures**

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Get the Charger Brand You Want



Fastest Deployed



Most Scalable



Lowest TCO

Vital Energy When and Where You Need It

The EV ARC™ 2020 is off-grid so generates no utility bill and can charge EVs during power outages. It provides emergency power for first responders, is wind-rated to 160 mph, flood-proof to 9.5' and ADA compliant. Units are deployed in minutes by a Beam Deployment Expert and require zero contact.

EV ARC™ 2020 Specifications

Performance	
Solar Array	4.4 kW
Range [1]	Up to 265 e-miles in a single day
Battery Storage Options	20, 30, 40 kWh
Total EV Charger Power [2]	Up to 5.76 kW
EV Charger Type [3, 4]	Any brand; 1-6 plugs; type J1772
Certified Wind Load	160 mph

Mechanical	
Array Dimensions	20.7 L x 10.7 W ft
Max Height	15.3 ft
Min Clearance	9 ft
Base-Pad Footprint	18 L x 7.5 W ft
Weight [5]	<12,500 lbs
Surface Loading [6]	8.14 psi
Standard Shipping Methods	ARC Mobility™ Trailer/ Truck & Trailer / Shipping Container
EV ARC™ Stowed Ship Size [7]	18 L x 7.5 W x 7.6 H ft

Major Component Ratings

EVSE: UL 2231, UL 2594
Solar Panels: UL 1703
Battery: Cells UL 1642 UL/ULC 2580, PCC Thermal Management Encapsulant UL 94 V0
Inverter: UL 1741-2010/2018, IEEE1547a-2003/2014, FCC 15 class B, UL 1741SA, CA Rule 21, HECO Rule 14H

1. Range will vary based on local conditions
2. Actual total output power depends on EV model and charger model
3. Supports a variety of quality EV chargers that come pre-mounted.
4. Power may be reduced based on number of circuits, EV model and charger model.
5. Exact weight varies based on EV ARC™ model and options
6. Pressure calculated by weight distributed over 8in x 24in anti-skid pads
7. Enables domestic and international shipping on a standard flatbed trailer or shipping container

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EV Charging | Emergency Preparedness | Energy Resiliency

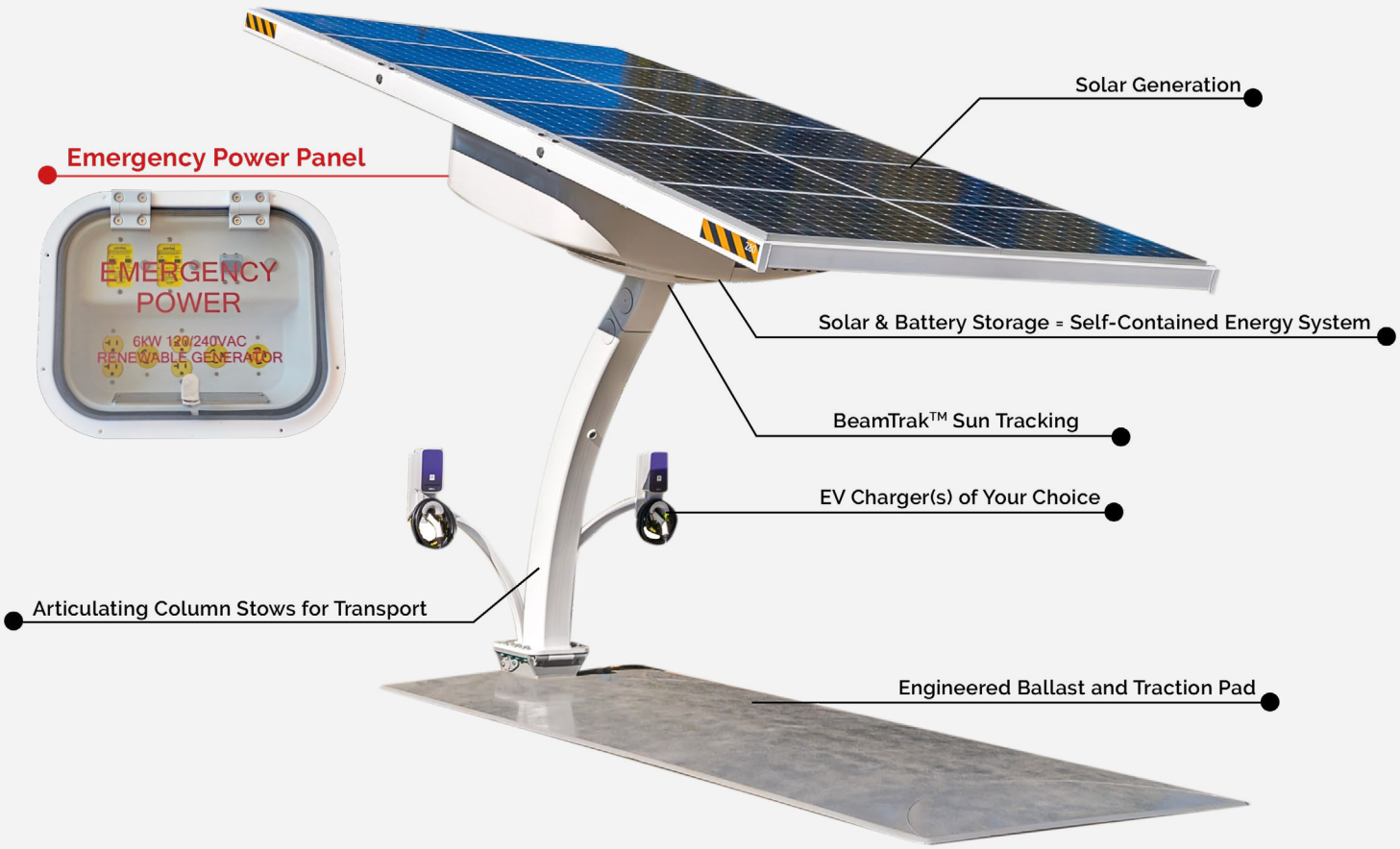
EV ARC™ 2020

The EV ARC™ 2020 is a 100% off-grid solar-powered electric vehicle (EV) charging system that doubles as a mobile emergency preparedness and energy resiliency asset. During grid failure it continues to produce, store and deliver energy. The Transformer ARC™ design folds into a low-profile structure for ease of transport, providing vital energy where and when needed.

- Mobile Energy
- Off Grid
- Rapid Deployment
- Emergency Power
- Easily Moved
- 100% Renewable

EV ARC™ 2020 "Transforms" into a low profile for transport





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EV Charging | Emergency Preparedness | Energy Resiliency

EV ARC™ 2020

The EV ARC™ 2020 is a versatile energy infrastructure product and is the only 100% renewable, movable, grid independent EV charging option that fits in a standard parking space. It is uniquely suited to serve emergency preparedness needs of local, state, federal and military agencies.

- Self contained EV/NEV charging station
- 4.3kW solar array with lithium ion battery storage
- Wind-rated up to 120 mph
- Flood-proof up to 9.5'
- BeamTrak™ sun tracking creates up to 25% more power
- Transportable for power where and when required
- Included in FEMA's Authorized Equipment List (AEL)*

Clean, Quiet, Safe Power

No fueling. No emissions. No noise. No on-site liquid fuel storage or handling.



* EV ARC™ solar powered charging stations are included in the FEMA Authorized Equipment List, under designation 10BC 00 SOLR Chargers.

EMERGENCY POWER PANEL SPECIFICATIONS

Provide vital electricity during emergencies, disasters, power outages or in locations without a utility grid connection. Deliver total continuous power of 25A at 240V max. Emergency Power Panel is securely located on the upper enclosure and is accessible via a ladder.

Breakers

- 1 x 30A main 240V breaker
- 2 x 20A push to reset 120V breakers
- 1 x 240V NEMA L14 30 outlet (not GFCI protected)
- 2 x 120V NEMA 5-20 duplex (GFCI protected)
- 2 x 120V NEMA L5-20 outlet (twist lock, GFCI protected)

Protection

- Lockable polycarbonate cover plate
- Cover plate serves as weather protection
- Padlock latch is universally compatible with standard locking mechanisms



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CASE STUDY

EV ARC™ Solar Microgrid Powers 3-Day Anti-Terrorist Field Training Exercise

California Emergency Medical Services Authority (CAL EMSA) Runs Emergency Equipment Day and Night for 3-Day Training Operation





Day Job: Faithful solar-powered electric vehicle charging system. 100% off-grid.

Weekend Warrior: Mission-critical hero providing electricity in emergencies, disasters, grid outages.

Held on Alameda Island in California, CAL EMSA, local police and urban search and rescue squads held a three day training for first responders focused on anti-terrorist readiness. Two EV ARC™ units were deployed to power field operations and a field hospital. Each EV ARC™ had an Emergency Power Panel (included in FEMA's Authorized Equipment List). Exercises included mock civilian rescues and medical triage in various situations.

The two EV ARC™ units were combined to create a 208V, three-phase, 12 kW microgrid for clean quiet energy day and night. Replacing diesel generators typically used eliminated the need to store, transport and handle fuel, and eliminated the noise, noxious fumes and fuel management.

Because EV ARC™ systems are portable and 100% off grid, cities can build EV charging infrastructure, energy resiliency and emergency preparedness with EV ARC™ systems.

MISSION CRITICAL STATIONS POWERED:

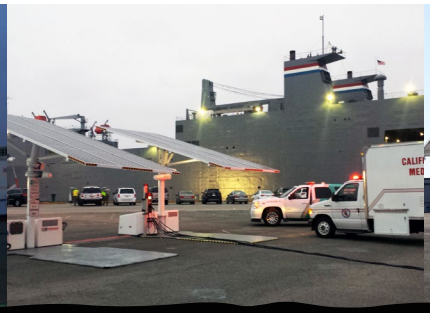
Communications Hub
- ViaSat Satellite for Internet
- Monitoring camera
- Router, radio repeater
- Laptops, cell phones

Mobile Workstation
- 2 CB Radios
- Portable radio charger
- Lights
- ACU-M interoperability gateway
- Laptops, cell phones

Medical Tent and Ops Tent
- Medical tent with medical equipment, air conditioning, lights
- Operations tent with communications hub, air conditioning, lighting









ARC Mobility™ Trailer

The Beam ARC Mobility™ trailer is specialized hydraulic transport equipment designed to rapidly relocate off-grid EV ARC™ 2020 sustainable EV charging systems. Remote controlled hydraulics enable one person to stow, transport, place and unstow EV ARC™ products. EV charging infrastructure has never been more scalable, flexible and resilient.

ARC Mobility™ Trailer for EV ARC™

Owners of Beam EV ARC™ sustainable off-grid EV charging systems can relocate systems for events, a move from leased properties, emergencies, a change in EV driver patterns or simply because they want them in a more optimal location. The frame is powder-coated for long-lasting durability and rust prevention with slip-resistant, grit-surface decking for safety and ease of movement. The ARC Mobility™ transport system is the fastest and easiest way to relocate and redeploy off-grid solar-powered EV ARC™ systems.



Rapidly Relocate and Redeploy EV ARC™ Systems

- Single Person Use
- Easy Stow/Unstow
- Rapid Relocation
- Remote Control Use

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EV ARC™ Systems When and Where You Need Them



Flexible



Scalable



Resilient

Durable, Industrial-Grade Transport System

The fully integrated hydraulic system and ruggedized remote control make it easy for one operator to stow, transport and unstow EV ARC™ systems. Heavy duty suspension, self-adjusting electric brakes and tandem 10,000 lb axles provide smooth stable transport. The trailer includes a spare wheel and mount, and comes in gooseneck or pintle hitch configurations for powerful towing options.

ARC Mobility™ Trailer Specifications

Specs	
Axles	Tandem Dexter Torflex 10k Axles (20k total)
Wheels	17.5X6.75 Wheel .19 Inset Steel. 6,005lb capacity
Tires	Taskmaster Provider HD ST215 /75 R17.5 135N
Hydraulic Power Unit	12VDC 1.3GPM HPU with 5 gallon tank
Hydraulic Fluid	AW-32 Hydraulic Oil
Overall Length	26ft 8in
Overall Width	9ft 6in
Loaded Height	10ft 3in
Unloaded Height	7ft 3in (Gooseneck) 6ft 10in (Pintle)
Unloaded Weight	6,000lbs
Loaded Weight	16,000lbs

Tools and Hardware
Full set of EV ARC™ deployment tools and hardware for EV ARC™ stow and unstow
LED lighting package
7-Way RV blade electrical connector
2-5/16" ball adjustable pipe coupler (Gooseneck) or height-adjustable 3" lunette ring (Pintle)
12V DC onboard hydraulic power unit and battery

A commercial driver's license (CDL) is required to tow an ARC Mobility™ trailer that is loaded with an EV ARC™ system.

Drive on Sunshine™

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