EV Charging | Emergency Preparedness | Energy Resiliency

EV ARC™

EV ARC™ is the 100% off-grid solar-powered electric vehicle (EV) charging system that also provides mobile emergency preparedness and energy resiliency asset. During grid failure EV ARC™ continues to produce, store and deliver energy. EV ARC™ folds into a low-profile structure for ease of transport, providing vital energy wherever and whenever needed.

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

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

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EV ARC™

EV ARC™ is a versatile energy infrastructure solution 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 160 mph
- Flood-proof up to 9.5'
- BeamTrak™ sun tracking generates 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 9.5 feet above the ground 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

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

v1.8

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

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 EV ARC™ systems were combined to create a 208V, three-phase, 12 kW micro-grid 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.

Reliable solar-powered electric vehicle charging system. 100% off-grid.

Mission-critical providing electricity in emergencies, disasters, grid outages.

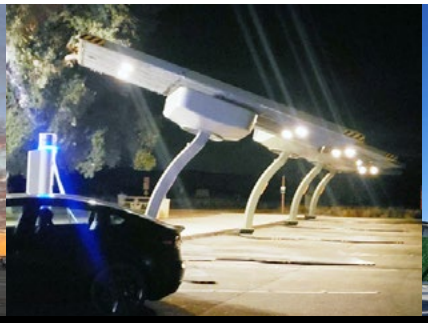
EV ARC™ STATIONS POWERED:

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