



A.C. DANDY

Electric Vehicle (EV) Substation & Power Center Series



Portable EV Charging Island

Future-Proof Products!

www.acdandy.com

EV UNIT SUBSTATION / CHARGING STATION

Level 2 Charging Station Max. 60kW Total Charging Load

Model #DUS-EV-CS

- Designed as a compact, weatherproof, dual vehicle EV charging station. Similar in size and style as existing gas pump. Makes for compact, deluxe, slimline design with easy access to individual side mounted chargers of various types and sizes. Unique on-board receptacle cord hanger is of robust design for easy, quick, reliable storage of power cords. Oversized roof protects charger and cords from the elements.
- Compact assembly complete with (optional) main circuit breaker, transformer, and branch circuit breakers
- Feeds (1-3) type 2 chargers mounted on the exterior sides of the enclosure



Options:

Main Circuit Breaker	Single Phase Loads	ESD
Revenue Meter Socket	Multiple Charger Sizes	DMS Metering
Meter Socket Cabinet	Load Contactors	Skid Mounted
Protective Cage	600, 480, & 208V Supply	Charger Management System

See page 8 *AC Dandy Electric Vehicle (EV) Charger Information* for information on:

- AC vs. DC charging
- Charging times vs. charger size
- Charger level types

For more information visit acdandy.com or call **1.800.642.2952**



TYPE 1 - SINGLE TRANSFORMER DESIGN

Max. 360kW Total Charging Load

Model #DUS-G1-EV

- Specifically designed as a compact, mid capacity transformer power supply substation with service entrance main circuit breaker, 1 transformer, and space for utility metering in one pre-assembled package
- CT space requirement limits this enclosure to only 1 load. If no CT's required, CDP can be installed for multiple smaller EV loads
- Single transformer design (208 – 480V step up or 600 – 480V step down)
- Feeds multiple level 1 or 2 chargers or (1-2) level 3 chargers



Options:

Revenue Meter Socket	CT/PT Space	DMS Metering
Meter Socket Cabinet	Load Contactors	Skid Mounted
Protective Cage	600, 480, & 208V Supply	

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TYPE 2 - DUAL TRANSFORMER DESIGN

Max. 180kW Total Charging Load

Model #DUS-G2-EV

- Designed as a compact power distribution centre complete with service entrance rated main circuit breaker, utility metering provision, primary CDP, transformer, and secondary CDP
- Dual transformer design (eg. 600-480V & 600-208V or 240V loads)
- Feeds multiple level 1 or 2 chargers or (1-3) smaller level 3 chargers + control



Options:

Utility Termination Box	Single Phase Loads	ESD
Revenue Meter Socket	CT/PT Space	DMS Metering
Meter Socket Cabinet	Load Contactors	Skid Mounted
Protective Cage	600, 480, & 208V Supply	Charger Management System

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TYPE 3 - DUAL TRANSFORMER DESIGN

Max. 240kW Total Charging Load

Model #DUS-G3-EV

- Specifically designed as a compact EV unit substation with (optional) utility supply terminal cell, service entrance rated main circuit breaker, utility metering provision, two transformers, 480V branch breakers, and 208 or 240V branch breakers in one pre-assembled package
- Dual transformer design (eg. 600-480V & 600-208V or 240V loads)
- Feeds various combination of level 1, 2 & 3 chargers + control



Options:

Utility Termination Box	Single Phase Loads	ESD (local and/or remote)
Revenue Meter Socket	CT/PT Space	DMS Metering
Meter Socket Cabinet	Load Contactors	Skid Mounted
Protective Cage	600, 480, & 208V Supply	Charger Management System

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TYPE 4 - 2-3 TRANSFORMER DESIGN

Max. 400kW Total Charging Load

Model #DUS-G4-EV

- Specifically designed as a pad mount, mid capacity, compact, electric vehicle power supply substation complete with (optional utility supply terminal cell, service entrance rated main cell, CT/PT, 1 or 2 or 3 transformer design, step up or step down design transformer section and 480V breaker section for EV chargers
- 2 transformer design (eg. 480V EV loads & 208 or 240V other loads) each complete with load circuit breaker
- 3 transformer design has an additional transformer to feed building/site loads
- Feeds (1-2) larger level 3 chargers or various other combinations
- For 480V supply, transformer section is not needed. Model # PDC-G4-EV



Options:

Utility Termination Box	Single Phase Loads	ESD (local and/or remote)
Revenue Meter Socket	CT/PT Space	DMS Metering
Meter Socket Cabinet	Load Contactors	Skid Mounted
Protective Cage	600, 480, & 208V Supply	Charger Management System

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- Charger level types

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TYPE 5 - 2-3 TRANSFORMER DESIGN

Max. 800kW Total Charging Load

Model #DUS-G5-EV

- Specifically designed as a pad mount, large capacity, electric vehicle power supply substation complete with (optional) utility supply terminal cell, service entrance rated main, CT/PT cell, 1 or 2 or 3 transformer design, step up or step down design transformer section, 480V breaker section for EV chargers, 208V or 240V branch breaker section for other loads, and space for control systems
- 2 transformer design (eg. 480V EV loads and 208 or 240V other loads)
- 3 transformer design has an additional transformer to feed building/site loads
- Feeds (3-4) fast level 3 chargers or (1-2) rapid level 3 chargers or various other combinations
- For 480V supply, transformer section is not needed. Model # PDC-G5-EV



Options:

Utility Termination Box	Single Phase Loads	ESD (local and/or remote)
Revenue Meter Socket	CT/PT Space	DMS Metering
Meter Socket Cabinet	Load Contactors	Skid Mounted
Protective Cage	600, 480, & 208V Supply	Charger Management System
2 Transformer Design	3 Transformer Design	Primary Feeder Breakers

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TYPE 6 - POWER HOUSE SUBSTATION DESIGN

Over 800kW Total Charging Load

Specifically designed as a Power House to feed a large site of loads. Available to handle supply voltages of 25kV and below. Easily portable and keeps all components and cable secure. Custom design available to accommodate specific site needs. Contact our factory for more information.

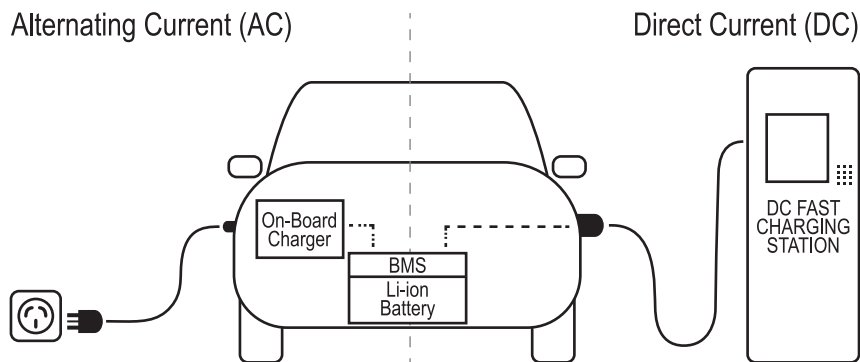


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ELECTRIC VEHICLE CHARGER INFORMATION

AC vs DC Charging



While every EV needs an onboard charger, size constraints reduce charge.

High voltage DC chargers can take a lot of power and feed it directly to the battery.

Charger Type	Power Supply	Charger Power (common sizes)	Charging Time (approx.)	A.C. Dandy Recommended Pedestal or Enclosure Model #
Level 1 (charger typically mounted inside vehicle & provided by EV manufacture)	120VAC	2kW AC	17 Hours	1D-DPP (24" EV pedestal) 1D-S-DPP (12" EV pedestal)
Level 2	208VAC or 240VAC	7.2kW AC	9 Hours	LEVC-FP-1 (pedestal) LEVC (pedestal)
		19.2kW AC	3.5 Hours	DUS-EV-CS (sub./charging station) DUS-G1-EV (substation) DUS-G2-EV (substation)
Level 3	480VAC	54kW DC	1 Hour	DUS-G3-EV (substation)
		184kW DC	20 Minutes	DUS-G3-EV (substation) DUS-G4-EV (substation) DUS-G5-EV (substation)
		360kW DC	10 Minutes	DUS-G5-EV (substation) DUS-G6-EV (substation)
Pantograph	480VAC	150 – 600kW DC	6 Minutes	DUS-G5-EV (substation) DUS-G6-EV (substation)

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ELECTRIC VEHICLE (EV) CHARGING SERIES

Level 1 Charging Stations

Specifically designed as a level 1 electric vehicle pedestal outlet to supply on board vehicle charger.

HEAVY DUTY EV PEDESTAL

Type 1, Series 4

Model #SMPDPP-4B-2 (EV)

- Designed as a base concrete mountable EV receptacle pedestal assembly complete with cord hangers on the side.



DELUXE EV PEDESTAL

Type 2, Series 4

Model #SMPDPP-1D (S-EV)

- Designed for superior appearance. Durable, long lasting, corrosion resistant, galvanized meter construction prevents rusting and assures long lasting quality finish - no visible mounting bolts or flange base to rust. Available in 12" & 24" high designs.



Options:

Key Operated Switch to Lock Out Supply	Padlockable Hinged Hood Over Receptacle, Switch, & Breaker	Remote Individual kWhR Metering
'On' Indicator LED	Feed Through Terminals	Branch Circuit Breaker
Model #DR45-1 Handy Hood	Weatherproof Cover	While-In-Use Cover

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ELECTRIC VEHICLE (EV) CHARGING SERIES Level 2 Charging Stations

FLEX POST EV CHARGING STATION

Type 1, Model #2DPP-LEVC-FP-1

- Mounts electric vehicle charging station 30A or 40A complete with pistol grip 18' cord and rear cable dock bracket
- FLEX POST design is ideal where pedestal is subject to collision

PEDESTAL STYLE

Type 2, Model #2DPP-LEVC

- Make your parking stall electric vehicle friendly, secure, vandal resistant and code compliant
- CSA certified. Weatherproof or for indoor use
- 30A or 40A complete with internal charger, dock bracket and padlockable outer door allows for in- or out-of-use service



OVERLOADED ELECTRICAL SERVICE? Here's your solution!

LOADMISER™ ENERGY DIVIDER CONTROLLER

Model #D-LM

- Ideal for energy saving or when system capacity is limited
- Eliminates requirement for service change when loads are added, such as electric vehicle charging stations etc. or new installations for code compliance to reduce load demand. Automatically drops non essential loads when overload occurs.
- Available from 30A to 400A



Ideal for cost and energy savings, or when system capacity is limited such as the addition of a hot tub or electric vehicle charger etc. to existing service.

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A.C. Dandy designs and manufactures power distribution systems, high and low voltage switch gear, splitters, and parking lot controllers and cabinets, from start to finish.

Contact our sales and design team for custom solutions.

100% Canadian 🍁

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Thank you for donating to your local SPCA or Humane Society



Each project is unique.

If you're looking for something special
give us a call, we are your problem solvers.

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