



DCES

DC Electronic Transfer Switch



Shown Above: DCES-1000-24V

For critical applications where reliability and uptime matters, the redundancy offered by the La Marche DCES(E) is the ideal solution. The DCES is much more than a diode battery selector. The La Marche DCES(E) is an intelligent DC power switching device with programmable control logic that ensures continuous operation from one of two power sources to a connected to the load. The microprocessor-based controller monitors voltage and availability of sources, automatically connecting available source upon failures of primary source.

The DCES(E) user-friendly LCD display provides voltage readings and alarms including Form 'C' for each of the sources. The LEDs indicate power flow of the source, displaying real time power source flow and availability. The DCES(E) can be programmed in four modes to automatically cycle between sources, specific source or both sources to be connected to the load. Each of the input sources are equipped with high-current normally closed contactors and is driven by the control logic based on the mode selection.

Both input sources can be protected with optional circuit breakers, which facilitates manual isolation for maintenance.

DCES - Switchgear Applications

DCES(E) - Engine Start Application or any High Inrush Applications

Standard Features

- Load Current Monitoring (DCES Model)
- Diode Isolation Between the Sources
- 4 Modes of Operation
- Individual Source Voltage Monitoring and Alarm
- Fault Alarm Relay
(2 Form C, Dry Type, Contacts Rated: 1A at 120VAC, 2A at 32VDC)
- Active Source Indicator LEDs and Contacts
(1 Form C, Dry Type, Contacts Rated: 13A at 277VAC, 10A at 28VDC)
- Fail Safe Design and Rugged Construction
- Natural Convection Cooling

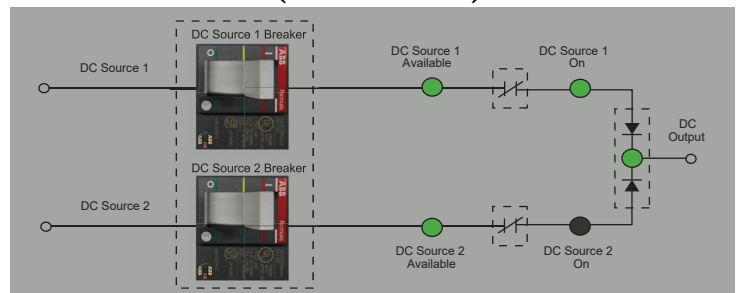
Optional Features

- 017** Input Breakers (2 Pole) (DCES Model Only)
- 18T** Strobe Light with 110dB Siren for Alarm Notification with Silence Switch
- 581** Fault Alarm Relay (2 Form C, Dry Type, Contacts Rated: 13A at 277VAC, 10A at 28VDC)
- 068** Audible Alarm with Silence Switch
- 21P** DNP 3.0 Communications (RS232/RS485/Ethernet)
- 21Q** MODBUS Communications (RS232/RS485/Ethernet)
- 21S** MODBUS RTU Serial Data Port (RS232/RS485)

LCD Display



LED Indicators (Front Panel)



Note: Circuit Breakers are not available for Engine Start (DCESE) models

Specification Chart

Model Number	Nominal Voltage	Continuous DC Current Rating	Case No.	Dimensions	Mounting
DCES-50-24V	24V	50	3	15.375" x 11.0" x 23.75"	Wall / Floor
DCES-80-24V	24V	80	3	15.375" x 11.0" x 23.75"	Wall / Floor
DCES-100-24V	24V	100	4	25.58" x 13.93" x 28.0"	Wall / Floor / Rack
DCES-150-24V	24V	150	4	25.58" x 13.93" x 28.0"	Wall / Floor / Rack
DCES-200-24V	24V	200	4	25.58" x 13.93" x 28.0"	Wall / Floor / Rack
DCES-50-48V	48V	50	3	15.375" x 11.0" x 23.75"	Wall / Floor
DCES-80-48V	48V	80	3	15.375" x 11.0" x 23.75"	Wall / Floor
DCES-100-48V	48V	100	4	25.58" x 13.93" x 28.0"	Wall / Floor / Rack
DCES-150-48V	48V	150	4	25.58" x 13.93" x 28.0"	Wall / Floor / Rack
DCES-200-48V	48V	200	4	25.58" x 13.93" x 28.0"	Wall / Floor / Rack
DCES-50-130V	130V	50	3	15.375" x 11.0" x 23.75"	Wall / Floor
DCES-80-130V	130V	80	3	15.375" x 11.0" x 23.75"	Wall / Floor
DCES-100-130V	130V	100	4	25.58" x 13.93" x 28.0"	Wall / Floor / Rack
DCES-150-130V	130V	150	4	25.58" x 13.93" x 28.0"	Wall / Floor / Rack
DCES-200-130V	130V	200	4	25.58" x 13.93" x 28.0"	Wall / Floor / Rack

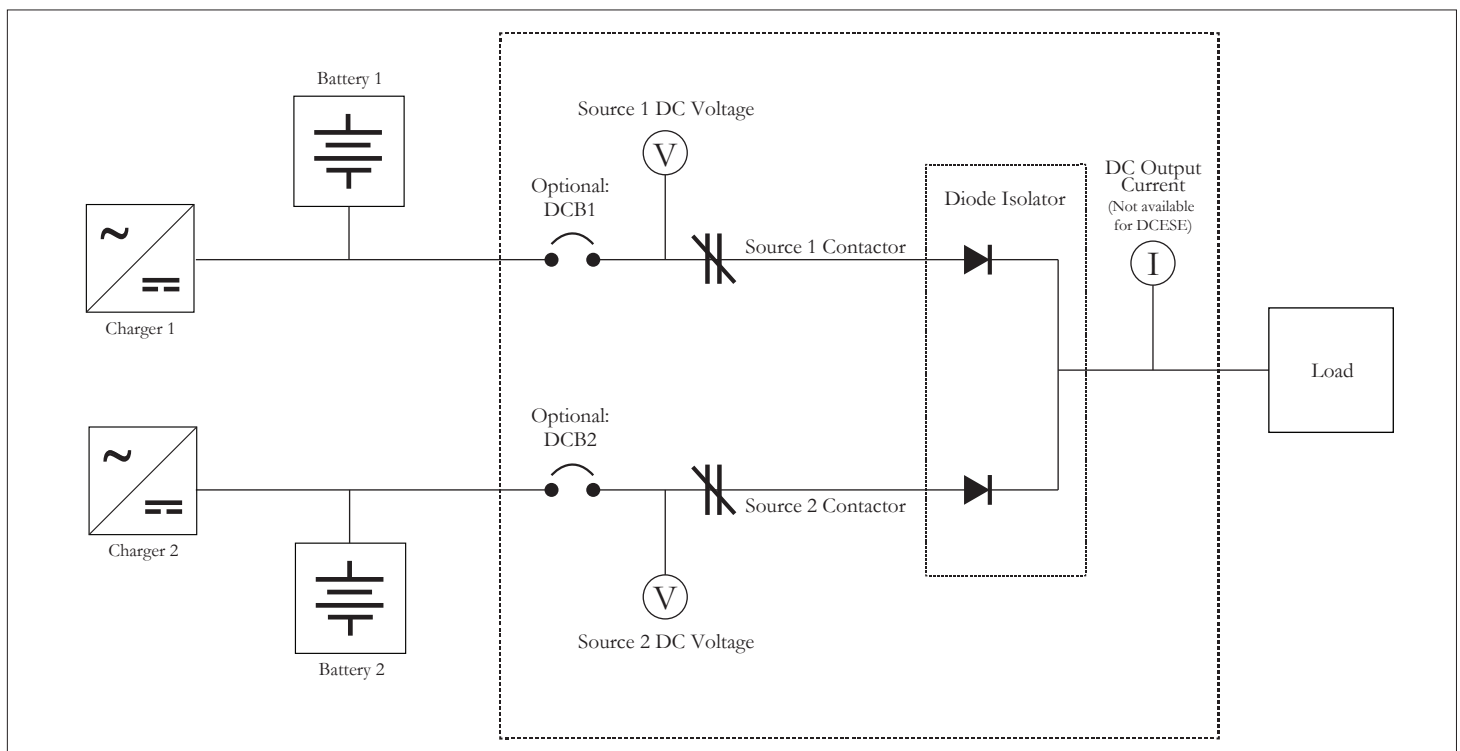
Note: Consult Factory for model number specifications not listed.

Specification Chart - Engine Start Applications

Model Number	Nominal Voltage	Inrush Current Rating (Engine Starting Applications)	Continuous DC Current Rating	Case No.	Dimensions	Mounting
DCESE-500-24V	24V	500	50	4	25.58" x 13.93" x 28.0"	Wall / Floor / Rack
DCESE-1000-24V	24V	1000	50	4	25.58" x 13.93" x 28.0"	Wall / Floor / Rack
DCESE-1600-24V	24V	1600	50	4	25.58" x 13.93" x 28.0"	Wall / Floor / Rack
DCESE-2600-24V	24V	2600	80	8A	27.2" x 15.25" x 32.5"	Floor

Note: Consult Factory for model number specifications not listed. Circuit Breakers are not available for Engine Start (DCESE) models

Block Diagram



Note: Only DC Positive (+) connections are shown. All DC negatives connected together.