

OUTDOOR Rectifier Application.

CORS-415

48V/140A Power Cabinet

HIGHLIGHTS

- Modular design for accommodating high power applications and easy maintenance
- Hot pluggable
- n+1 Redundancy
- Outdoor use for harsh environment
- AC/DC Breakers are Din Rail type.
- Low voltage disconnect for the battery protection
- Battery Temperature compensation charging



GENERAL SPECIFICATIONS

INPUT

- Nominal Voltage.....1Ø240VAC
- Operating Range..... 216VAC ~ 264 VAC
- Frequency..... 50Hz
- Frequency Range.....47Hz~63Hz
- Power Factor..... ≥ Typically 98% at full load
- Efficiency≥ Typically 90% at full load

OUTPUT

- Voltage.....Default -54.5VDC
- Range.....-44VDC ~ -59VDC
- Current.....35A /module, 140Amax.(4module)
- Ripple & Noise ≤ 100mVp-p

PROTECTION

- Input Under • Over Voltage
- Output High Voltage
- Output Current Limit
- Output Short Circuit
- Thermal Shutdown
- Battery Thermal Compensation
- Low Voltage Disconnect

PHYSICAL DIMENSINS(W × D × H)

- Module(mm)..... 85 × 405 × 122
- Controller (mm).....85 × 405 × 122
- Cabinet(mm).....730 × 630 × 2000

ENVIRONMENT

OPERATION

- Temperature.....0°C ~ +55 °C
- Relative Humidity.....5% ~ 95%
(non Condensing)

NON-OPERATION

- Ambient Temperature.....-40°C ~ +85 °C
- Relative Humidity.....5% ~ 100%(condensing)

AGENCY COMPLIANCES

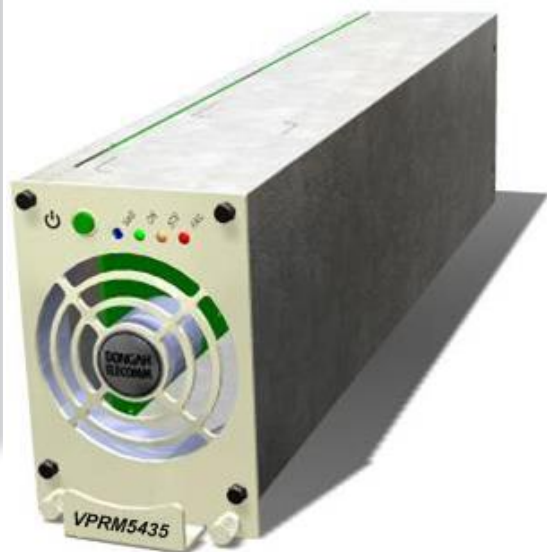
- Standard – FCC Part15 Subpart B, Class A
- Protection classification : EN60529(IP55)
- Electrostatic Discharge (ESD) : EN61000-4-2
- Electrical safety: EN60950



-54.5V/35A Power Module

SYSTEM APPLIED PRODUCTS

VPRM5435



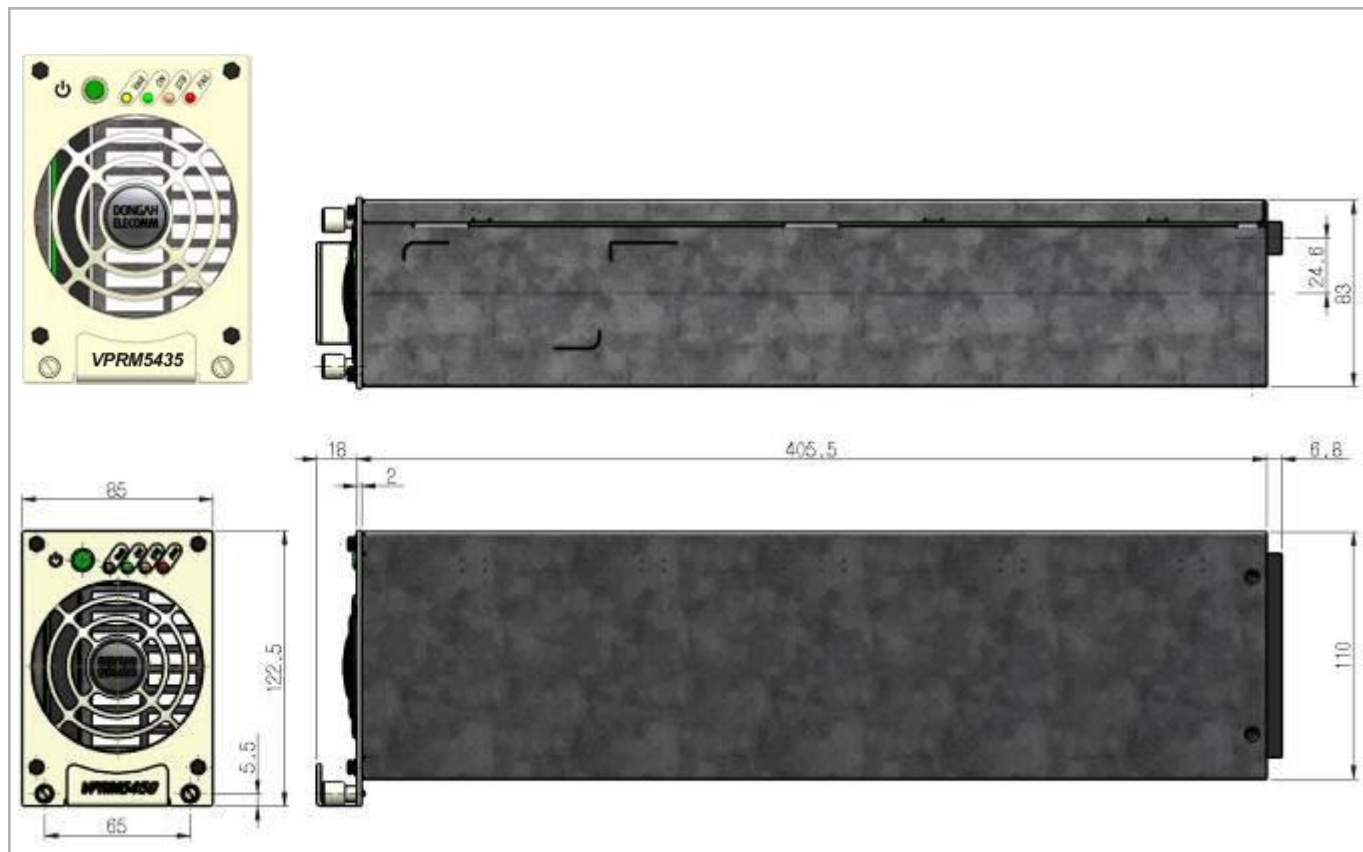
INPUT

- Voltage.....1Ø240VAC
- Frequency.....50/60Hz
- Power Factor..... ≥ Typically 98% at full load
- Efficiency≥ Typically 90% at full load

OUTPUT

- Voltage.....Default -54.5VDC
- Current.....35Amax.
- Load/Line regulation ≤ ± 0.5%

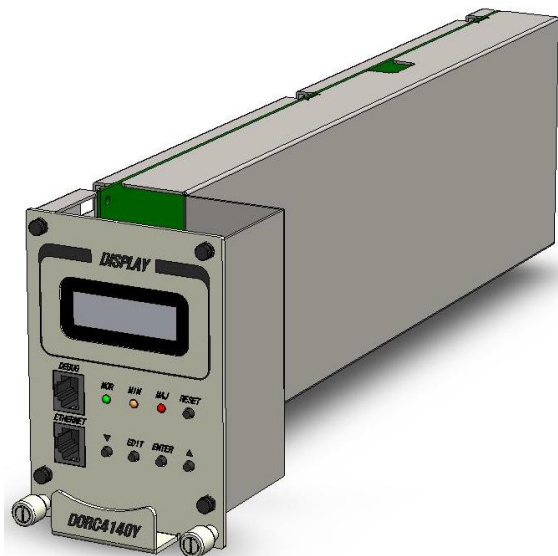
DIMENSION



SYSTEM APPLIED PRODUCTS

Control Module

DORC4140Y



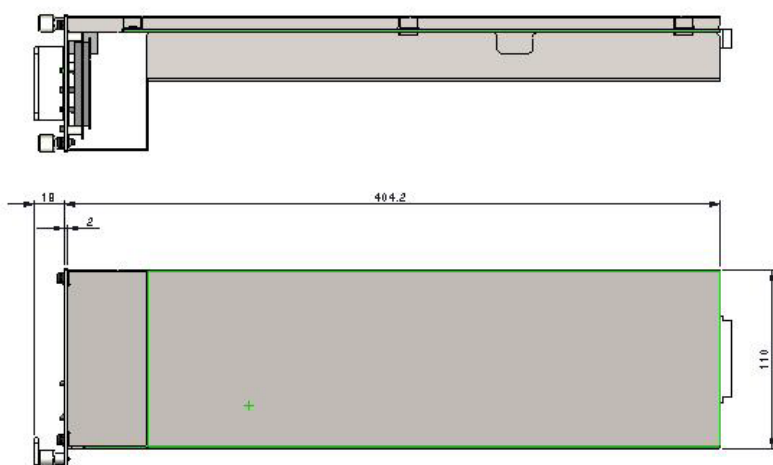
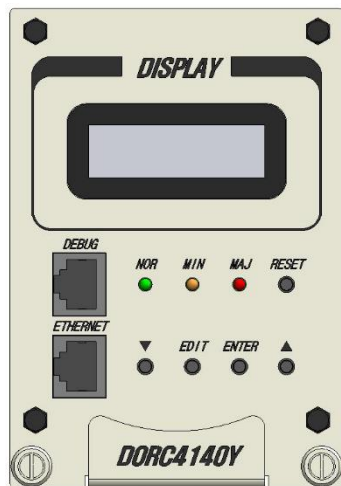
INPUT

- Normal Voltage.....-48Vdc
- Range.....-36 ~ -60Vdc

Composition

- Set Point Changing Button
- Reset Button
- System Status Display LED(Green, Yellow, Red)
- System Status Display LCD Meter
- TCP/IP Port
- Program Update Debug Port

DIMENSION



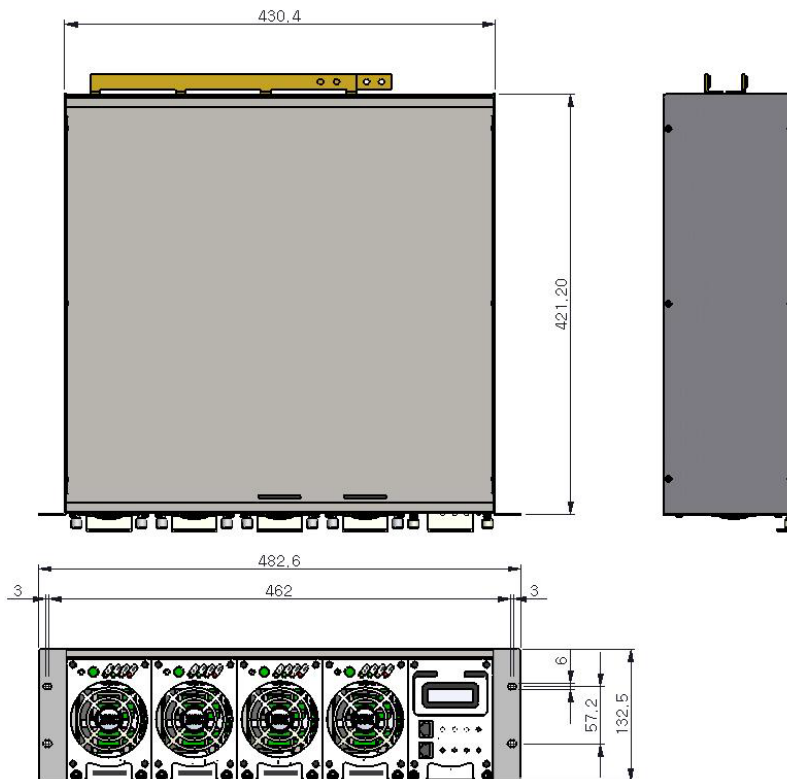
Rectifier Shelf

SYSTEM APPLIED PRODUCTS

- The Rectifier Shelf is consist of
 - ▶ -54.5V/35A 4EA power modules
 - ▶ controller

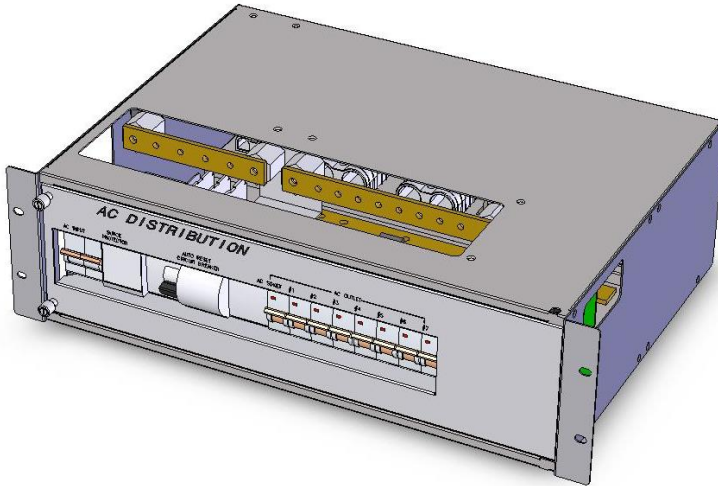


DIMENSION



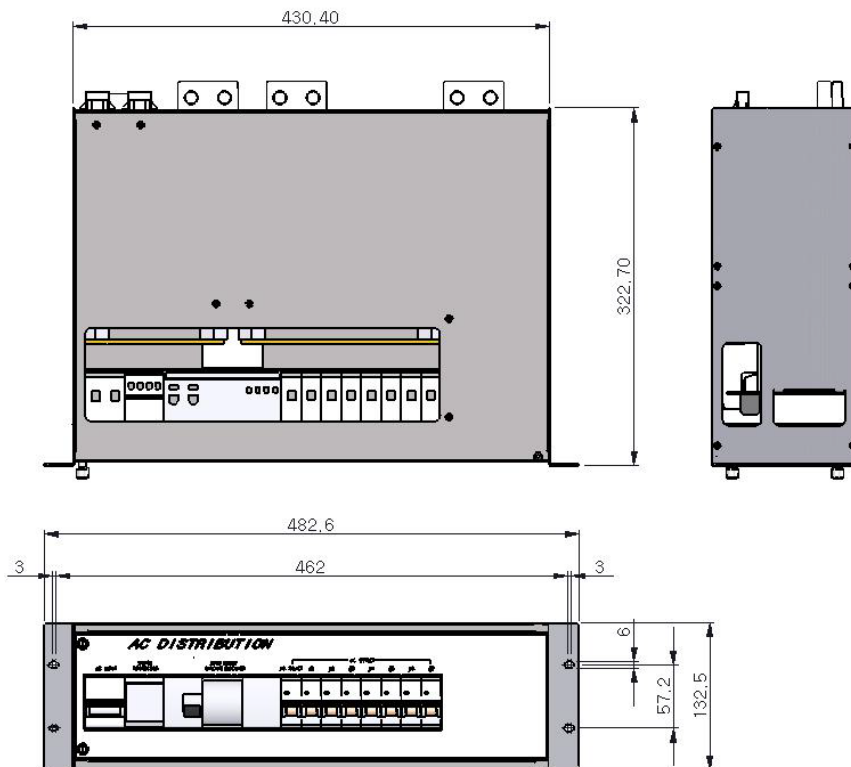
SYSTEM APPLIED PRODUCTS

AC Distribution Shelf



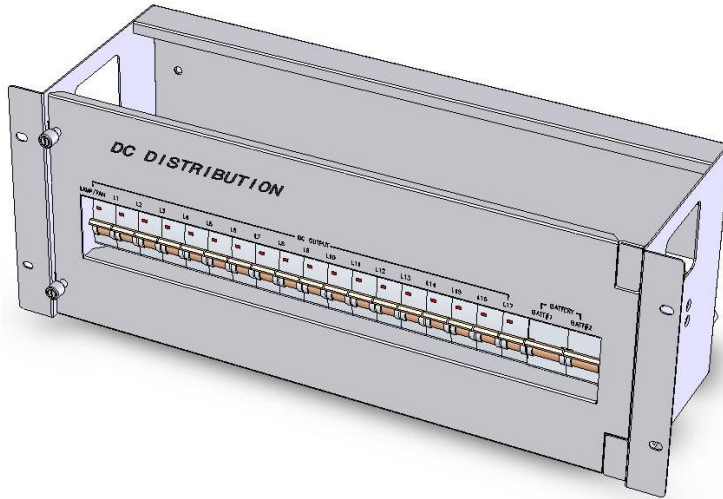
- The AC Distribution Shelf is consist of
 - ▶ AC MCCB : 63A 2Pole
 - ▶ Surge Protector : 100KA
 - ▶ ELCB : 40A 2Pole
 - ▶ Auto reset circuit breaker / Transformer
 - ▶ AC breaker
 - 6A 1Pole ->1EA
 - 16A 1Pole->1EA
 - 32A 1Pole->2EA
 - ▶ Alarm PCB

DIMENSION



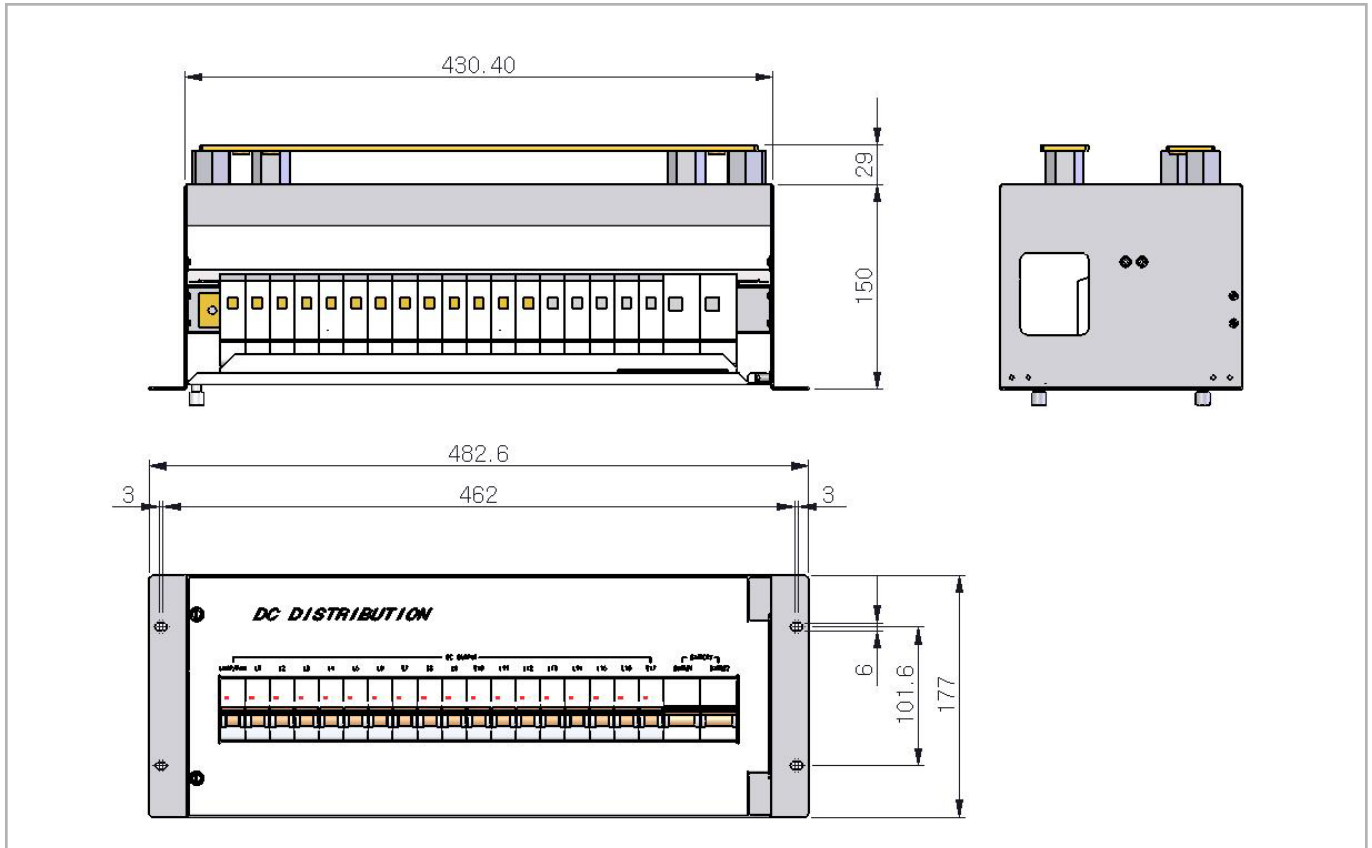
DC CELL Distribution Shelf

SYSTEM APPLIED PRODUCTS



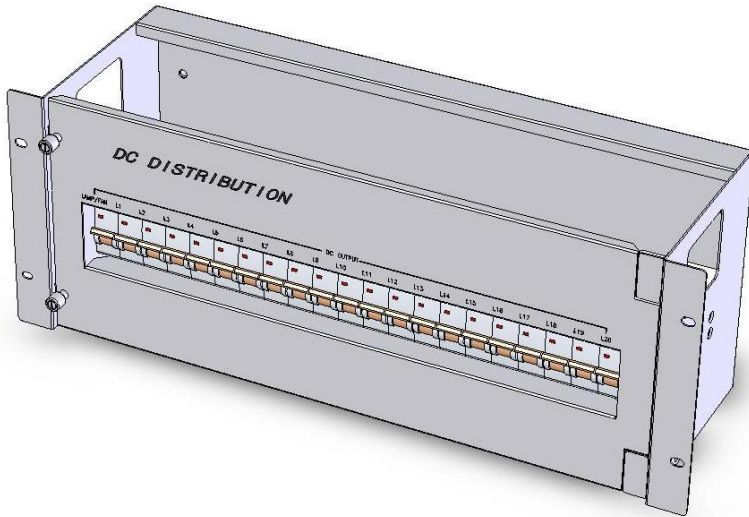
- The DC Distribution Shelf is consist of
 - ▶ DC breaker
 - 6A 1Pole -> 7EA
 - 20A 1Pole -> 2EA
 - ▶ Battery breaker
 - 125A 1Pole -> 2EA

DIMENSION



DC HUB Distribution Shelf

SYSTEM APPLIED PRODUCTS



• The DC Distribution Shelf is consist of

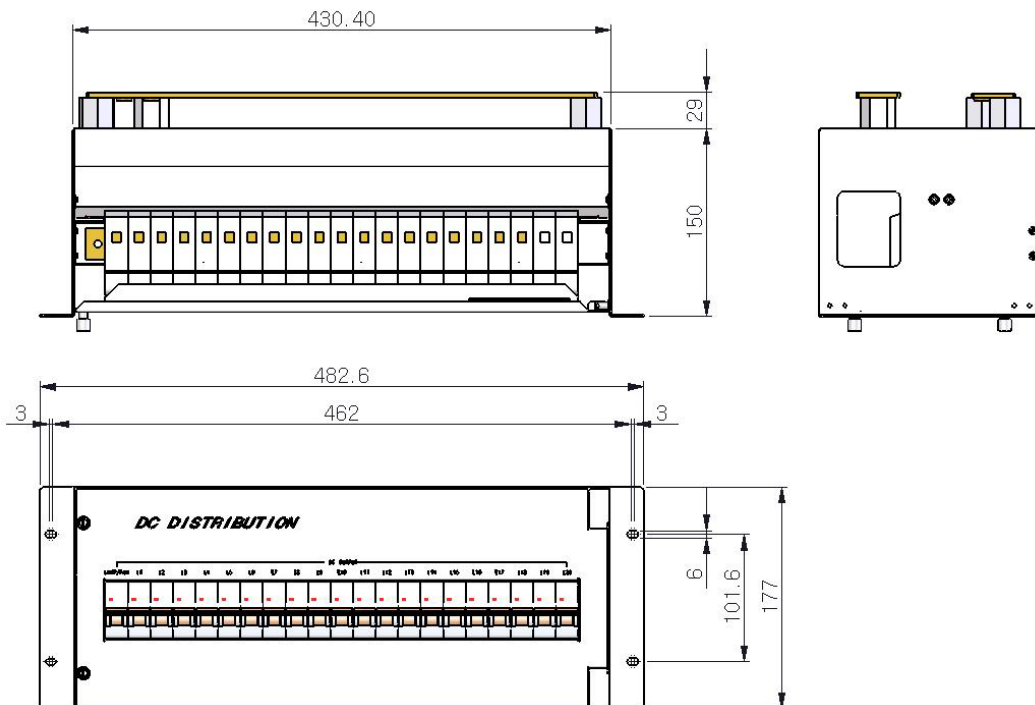
▶ DC breaker

6A 1Pole -> 15EA

20A 1Pole -> 2EA

32A 1Pole -> 1EA

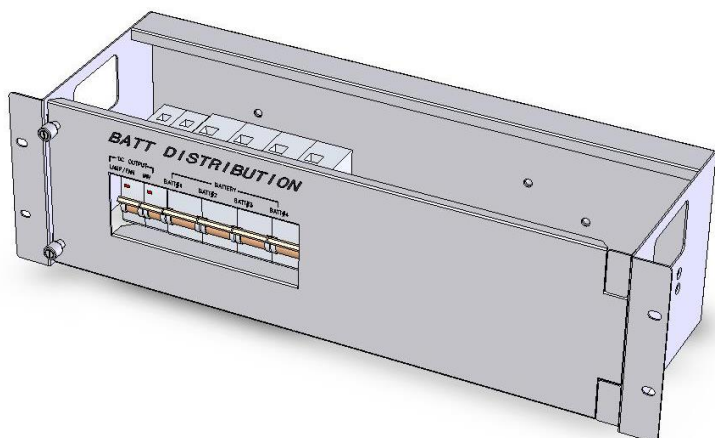
DIMENSION



BATT HUB Distribution Shelf

SYSTEM APPLIED PRODUCTS

- The DC Distribution Shelf is consist of
 - ▶ DC breaker
 - 6A 1Pole -> 1EA
 - 32A 1Pole -> 1EA
 - ▶ Battery breaker
 - 125A 1Pole -> 4EA



DIMENSION

