Embedded Power System

ETP4830-A1

Introduction

ETP4830-A1 is an AC/DC embedded power system with excellent performance such as high power efficiency, intelligent battery management, remote management, wide range of AC input voltage, etc.

The system can configure 2 pieces of 1U 15A high rectifier modules, and provides 30A rated current output.

ETP4830-A1 can be embedded in 19-inch rack or cabinet.

ETP4830-A1

Features

- Wide range of AC input voltage from 85 Vac to 300 Vac
- Wide operation temperature range of rectifier from – 40℃ to 75℃
- Hot-swappable
- Standard structure design, adapt 19/21 inch installation
- Compact design(only 1U in height), saving user space
- High rectifier efficiency over 96% helps to save energy
- Excellent rectifier dormancy function increases system efficiency
- Intelligent battery management and protection help to prolong battery lifespan
- Support environmental signal monitoring and remote management through dry contact, serial interface or Ethernet interface

15A rectifier

Monitoring unit SMU01A

Monitoring unit SMU01B

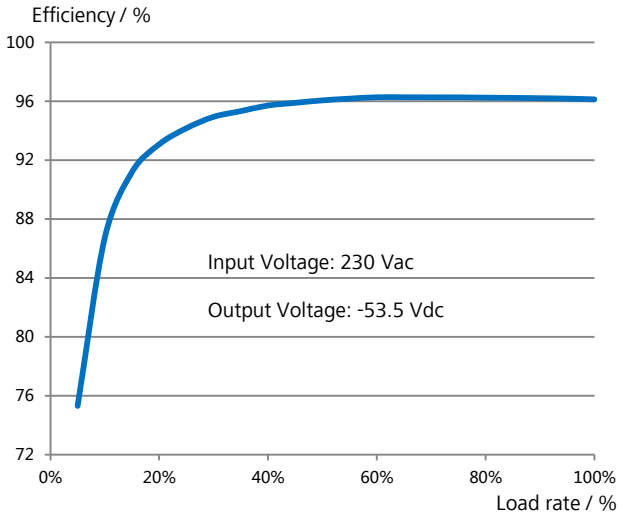
Monitoring unit SMU01C

Scenarios

- Access network
- Transmission network
- Communication network of enterprises

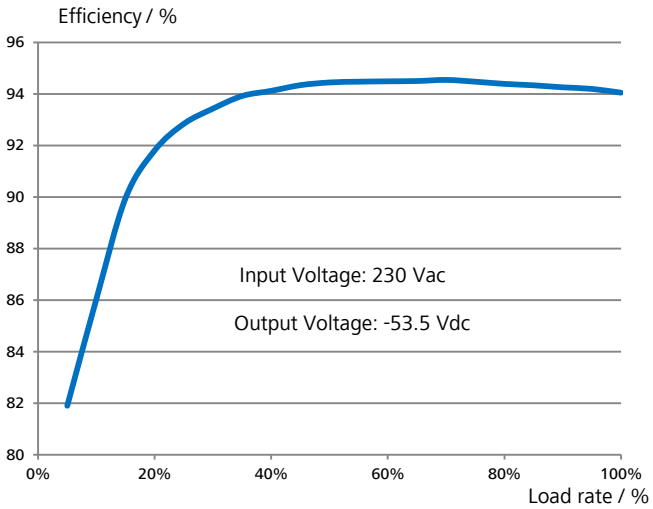
Efficiency Curve

Rectifier -870 W-96%
(R4815G1)



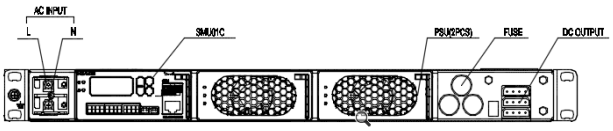
Energy Efficiency Curve

Rectifier -1 kW-94%
(R4815N1)

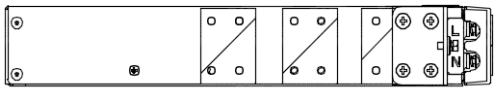


Energy Efficiency Curve

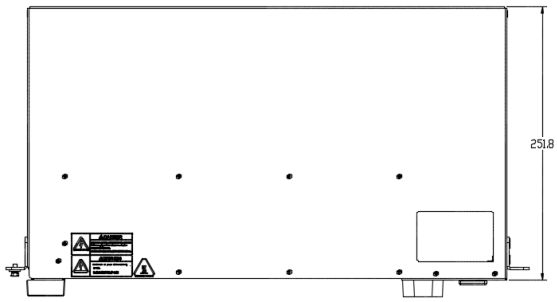
Dimension Drawings



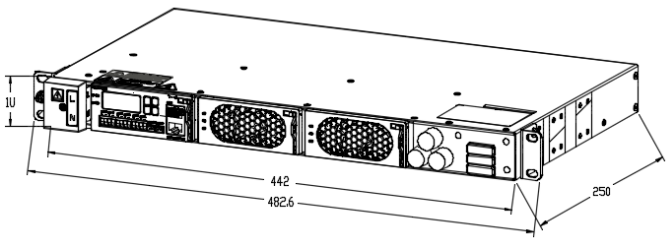
Front View of ETP4830-A1



Side View of ETP4830-A1

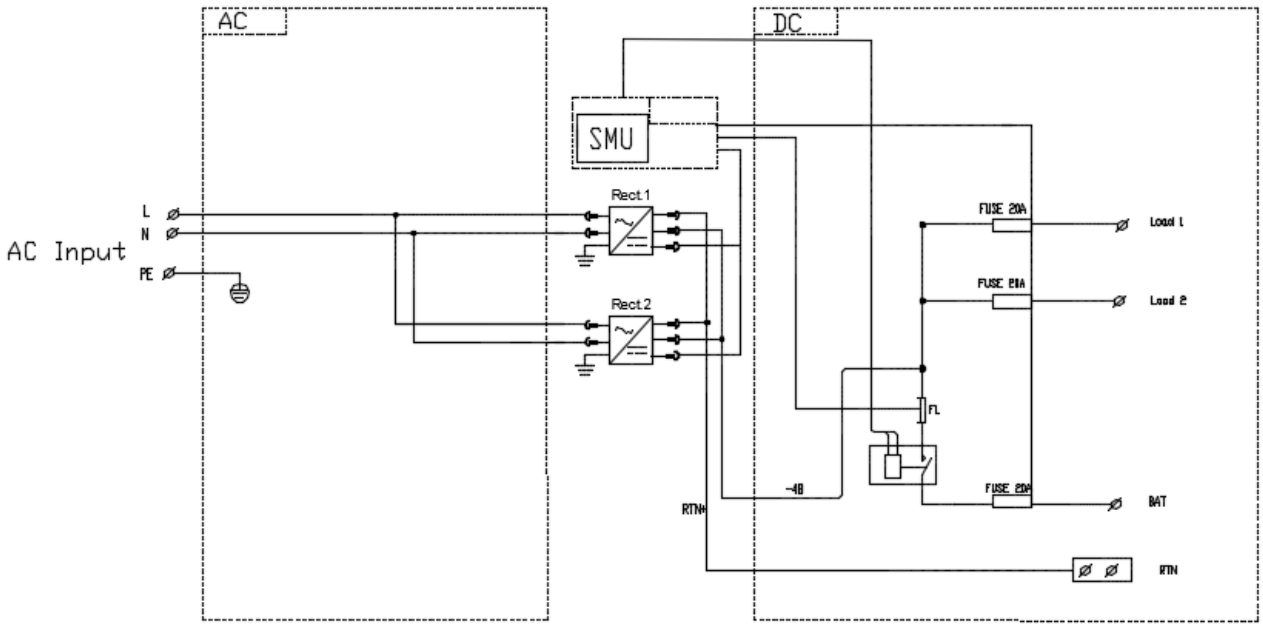


Top View of ETP4830-A1



Overview of ETP4830-A1

Schematic Diagram



ETP4830-A1

Specifications

Product Type		ETP4830-A1
System	Dimension	482.6 mm (W) × 255 mm (D) × 43.6 mm (1U,H)
	Weight	≤ 8 kg (fully loaded)
	Cooling Mode	Natural cooling
	Installation Mode	Installed on 19-inch rack or cabinet
	Cabling Mode	Front inlet and front outlet
	Maintenance Mode	Front
	Protection Level	IP20
Input	AC Input Voltage	85–300 Vac, rated value: 220 Vac, 220 Vac single-phase or 110 Vac dual-live wire
	Input Frequency	45–66 Hz, rated value: 50/60 Hz
	Input Capacity	-
Output	AC Output	-
	Output Voltage	42–58 Vdc, rated value: 53.5 Vdc
	Maximum Capacity	2 kW
	Battery Breakers	1 × 20 A (fuse)
	LLVD Breakers	-
	BLVD Breakers	2 × 20 A (fuse)
	SPD	-
EMC & Safety	EMC	CISPR 22/EN 55022, IEC 61000-3-2, IEC 61000-3-3, EN61000-4-11
	Safety	IEC/EN60950-1/GB 4943
Environment	Operating Temperature	-40°C to +70°C (NOTE: The system can run for 8 hours at 70°C)
	Storage Temperature	–40°C to +70°C
	Operating Humidity	5% – 95% (non-condensing)
	Altitude	0 – 4000 m (When the altitude ranges from 2000 m to 4000m, the operating temperature decreases by 1°C for each additional 200 m)

Product Type		R4815G1	R4815N1
Rectifier	Efficiency	> 95% (60% to 100% load) > 96% Max	> 93% (30% to 100% load) > 94% Max
	Maximum Power	870 W (176 to 300 Vac)	1000 W (176 to 300 Vac)
	Input Voltage	85 to 300 Vac	
	Working Temperature	-40 °C to +75 °C (full output below 65°C), ETS EN 300-019	-40 °C to +75 °C (full output below 55°C), ETS EN 300-019
	Dimension	95.5 mm(W) × 208 mm(D) × 40.8 mm(H)	
	Weight	≤1.2 kg	≤1.1 kg
	Cooling Mode	Forced Air cooling (Built-in fan)	
	Power Factor	≥ 0.98 (> 50% load at 230 Vac)	≥ 0.98 (> 50% load at 230 Vac), ≥ 0.99 (100% load at 230 Vac)
	THD	≤ 5% (> 65% load at 230 Vac)	≤ 5% (> 50% load at 230 Vac)

Product Type		SMU01A	SMU01B	SMU01C
Controller	Signal Input	7 digital inputs (need interface Unit MUE02A or MUE02B)	7 digital inputs (need interface Unit MUE02A or MUE02B), 1 analog input	2 digital inputs, 2 analog inputs
	Alarm Output	8 dry contacts (need interface Unit MUE02A or MUE02B)		4 dry contacts
	Communication Port	RS232, RS485, FE	RS232, RS485	
	Display Mode	LCD		

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Embedded Power System

ETP4890-A2

Introduction

ETP4890-A2 is an AC/DC embedded power system with excellent performance such as high power efficiency, intelligent battery management, remote management, wide range of AC input voltage, etc.

The system can configure 1U 15A/30A high rectifier modules, and provides 90A rated current output.

ETP4890-A2 can be embedded in 19-inch rack or cabinet.

ETP4890-A2

Features

- Wide range of AC input voltage from 85 Vac to 300 Vac
- Wide operation temperature range of rectifier from – 40℃ to 75℃
- Hot-swappable
- Standard structure design, adapt 19/21 inch installation
- Compact design(only 2U in height), saving user space
- High rectifier efficiency over 96% helps to save energy
- Excellent rectifier dormancy function increases system efficiency
- Intelligent battery management and protection help to prolong battery lifespan
- Support environmental signal monitoring and remote management through dry contact, serial interface or Ethernet interface

15A rectifier

30A rectifier

Monitoring unit SMU01A

Monitoring unit SMU01B

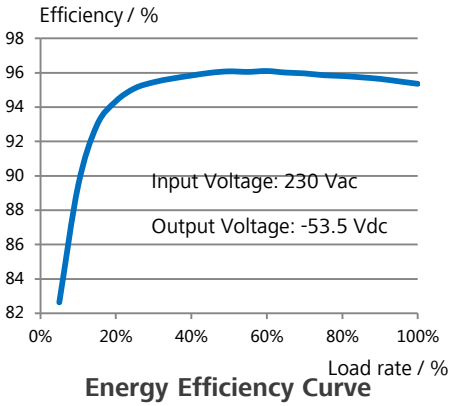
Monitoring unit SMU01C

Scenarios

- Access network
- Transmission network
- Communication network of enterprises

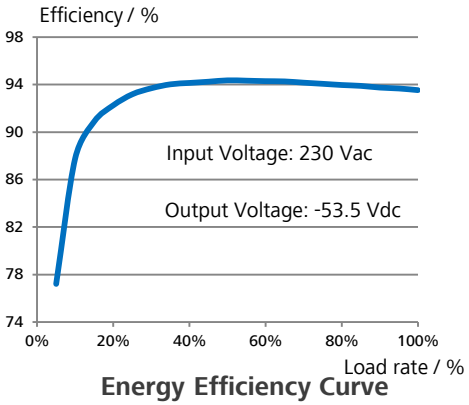
Efficiency Curve

Rectifier -1600 W-96%
(R4830G1)



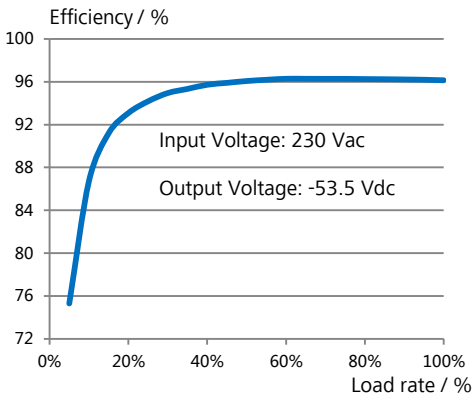
Energy Efficiency Curve

Rectifier -1740 W-94%
(R4830N2)



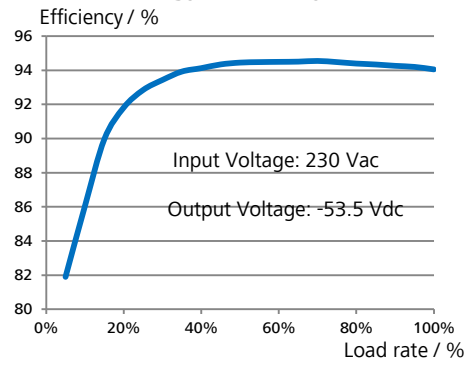
Energy Efficiency Curve

Rectifier -870 W-96%
(R4815G1)



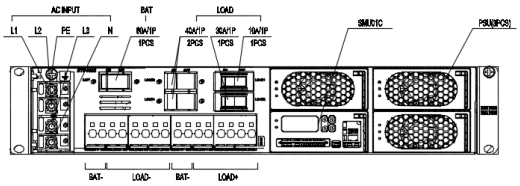
Energy Efficiency Curve

Rectifier -1 kW-94%
(R4815N1)

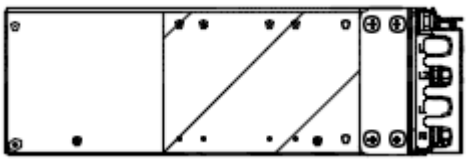


Energy Efficiency Curve

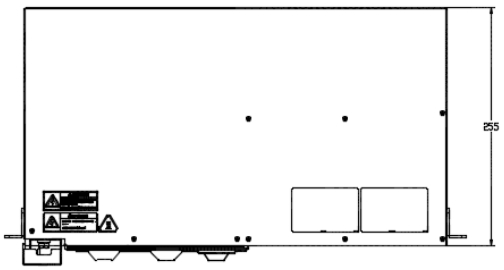
Dimension Drawings



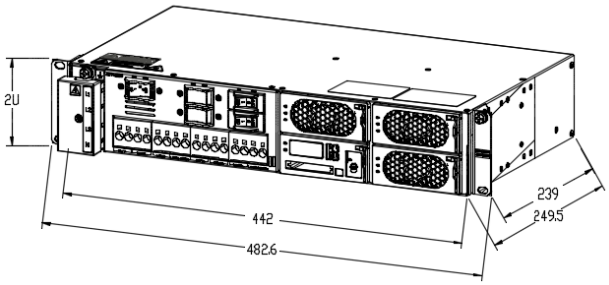
Front View of ETP4890-A2



Side View of ETP4890-A2

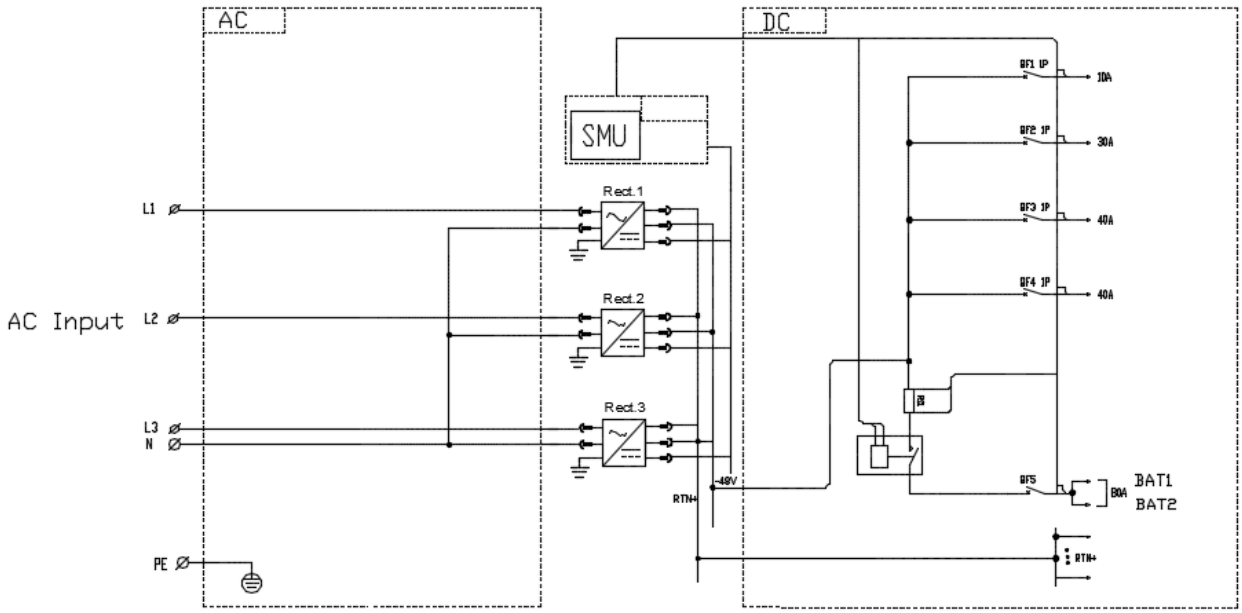


Top View of ETP4890-A2



Overview of ETP4890-A2

Schematic Diagram



ETP4890-A2

Specifications

Product Type		ETP4890-A2
System	Dimension	482.6 mm (W) × 255 mm (D) × 86.1 mm (2U,H)
	Weight	≤ 10 kg (fully loaded)
	Cooling Mode	Natural cooling
	Installation Mode	Installed on 19-inch rack or cabinet
	Cabling Mode	Front inlet and front outlet
	Maintenance Mode	Front
	Protection Level	IP20
Input	AC Input Voltage	85–300 Vac, rated value: 220 Vac , 220/380 Vac three-phase or 220 Vac single phase or 110 Vac dual-live wire
	Input Frequency	45–66 Hz, rated value: 50/60 Hz
	Input Capacity	-
Output	AC Output	-
	Output Voltage	42–58 Vdc, rated value: 53.5 Vdc
	Maximum Capacity	4.8 kW
	Battery Breakers	1 × 80 A/1P
	LLVD Breakers	-
	BLVD Breakers	1 × 10 A/1P, 1 × 30 A/1P, 2 × 40 A/1P
	SPD	-
EMC & Safety	EMC	CISPR 22/EN 55022, IEC 61000-3-3, IEC 61000-3-12, IEC61000-4-11
	Safety	IEC 60950-1/GB 4943
Environment	Operating Temperature	–40°C to +70°C (NOTE: ETP4890-A2 can still run 8 hours at the temperature of 70°C)
	Storage Temperature	–40°C to +70°C
	Operating Humidity	5% – 95% (non-condensing)
	Altitude	0 – 4000 m (When the altitude ranges from 2000 m to 4000 m, the operating temperature is decreased by 1°C for each additional 200 m)

Product Type		R4830G1	R4830N2	R4815N1	R4815G1
Rectifier	Efficiency	> 95% (25% to 100% load) > 96% Max	> 93% (30% to 100% load) > 94% Max		> 95% (60% to 100% load) > 96% Max
	Maximum Power	1600W (176 to 300 Vac)	1740W (176 to 300 Vac)	1000W (176 to 300 Vac)	870W (176 to 300 Vac)
	Input Voltage	85 to 300 Vac / 85 to 400 Vdc	85 to 300 Vac		
	Working Temperature	-40 ℃ to +75 ℃ (full output below 55℃), ETS EN 300-019	-40 ℃ to +75 ℃ (full output below 45℃), ETS EN 300-019	-40 ℃ to +75 ℃ (full output below 55℃), ETS EN 300-019	-40 ℃ to +75 ℃ (full output below 65℃), ETS EN 300-019
	Dimension	95.5 mm(W) × 208 mm(D) × 40.8 mm(H)			
	Weight	≤1.2 kg	≤1.3 kg	≤1.1 kg	≤1.2 kg
	Cooling Mode	Forced Air cooling (Built-in fan)			
	Power Factor	≥ 0.99 (> 50% load at 230 Vac)	≥ 0.98 (> 50% load at 230 Vac), ≥ 0.99 (100% load at 230 Vac)		≥ 0.98 (> 50% load at 230 Vac)
	THD	≤ 5% (> 50% load at 230 Vac)			≤ 5% (> 65% load at 230 Vac)

Product Type		SMU01A	SMU01B	SMU01C
Controller	Signal Input	7 digital inputs (need interface Unit MUE02A or MUE02B)	7 digital inputs (need interface Unit MUE02A or MUE02B), 1 analog input	2 digital inputs, 2 analog inputs
	Alarm Output	8 dry contacts (need interface Unit MUE02A or MUE02B)		4 dry contacts
	Communication Port	RS232, RS485, FE	RS232, RS485	
	Display Mode	LCD		

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Embedded Power System

ETP48150-A3

Introduction

ETP48150-A3 is an AC/DC embedded power system with excellent performance such as high power efficiency, intelligent battery management, remote management, wide range of AC input voltage, etc.

The system can configure 1U 15A/30A high rectifier modules, and provides 150A rated current output.

ETP48150-A3 can be embedded in 19-inch rack or cabinet.

ETP48150-A3

Features

- Wide range of AC input voltage from 85 Vac to 300 Vac
- Wide operation temperature range of rectifier from – 40℃ to 75℃
- Hot-swappable
- Standard structure design, adapt 19/21 inch installation
- Compact design(only 3U in height), saving user space
- High rectifier efficiency over 96% helps to save energy
- Excellent rectifier dormancy function increases system efficiency
- Intelligent battery management and protection help to prolong battery lifespan
- Support environmental signal monitoring and remote management through dry contact, serial interface or Ethernet interface

15A rectifier

30A rectifier

Monitoring unit SMU01A

Monitoring unit SMU01B

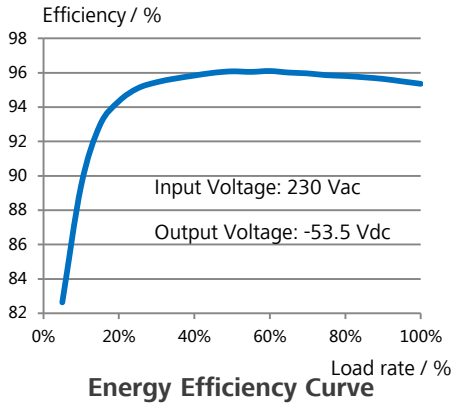
Monitoring unit SMU01C

Scenarios

- Access network
- Transmission network
- Communication network of enterprises

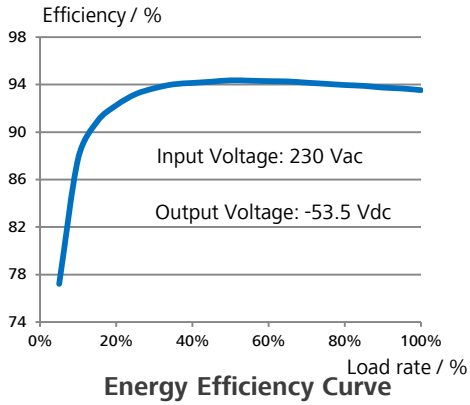
Efficiency Curve

Rectifier -1600 W-96%
(R4830G1)



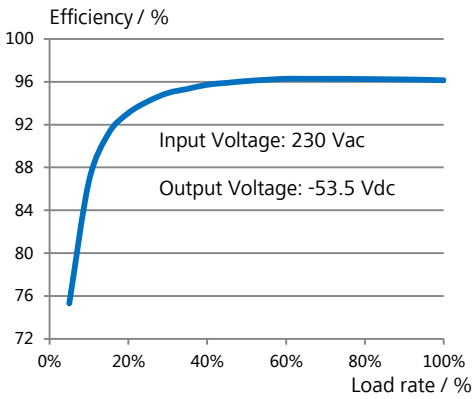
Energy Efficiency Curve

Rectifier -1740 W-94%
(R4830N2)



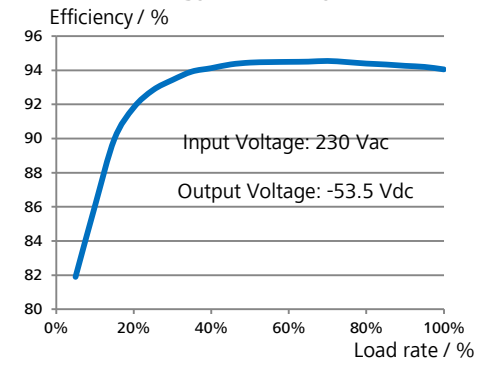
Energy Efficiency Curve

Rectifier -870 W-96%
(R4815G1)



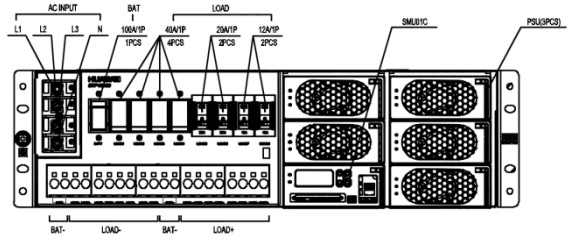
Energy Efficiency Curve

Rectifier -1 kW-94%
(R4815N1)

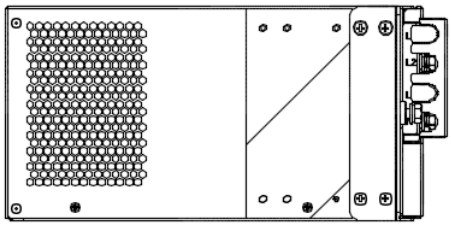


Energy Efficiency Curve

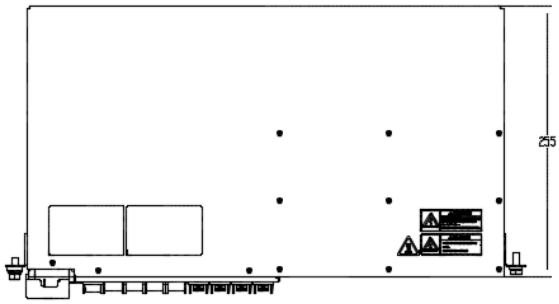
Dimension Drawings



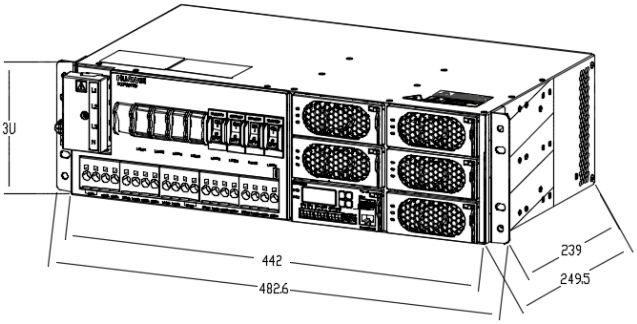
Front View of ETP48150-A3



Side View of ETP48150-A3

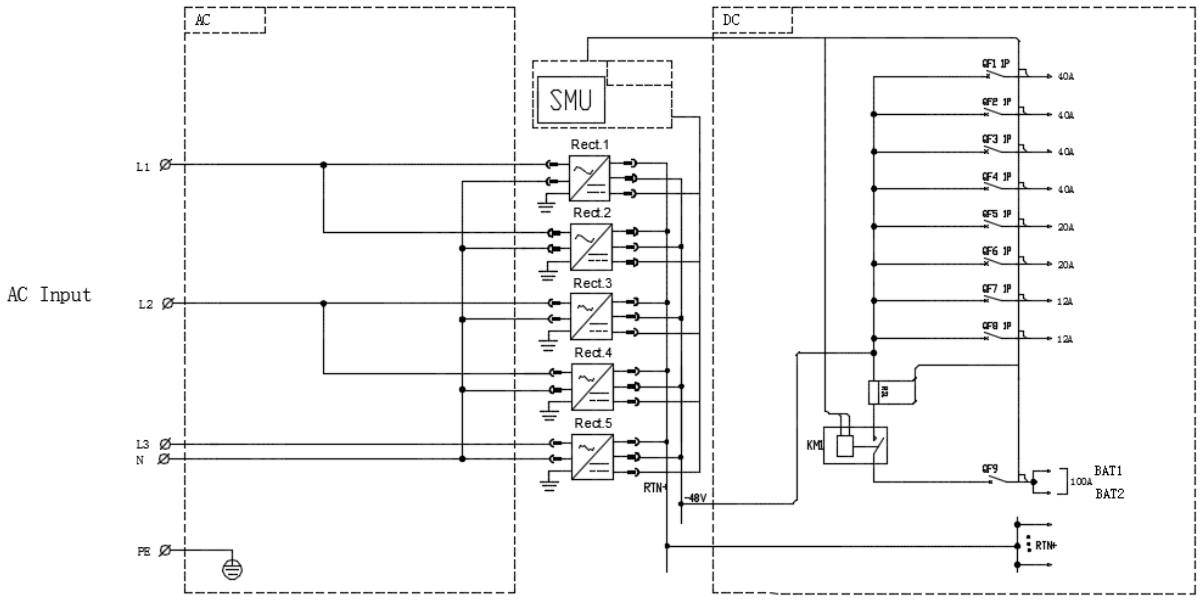


Top View of ETP48150-A3



Overview of ETP48150-A3

Schematic Diagram



ETP48150-A3

Specifications

Product Type		ETP48150-A3
System	Dimension	482.6 mm (W) × 255 mm (D) × 130.5 mm (3U,H)
	Weight	≤ 15 kg (without rectifiers)
	Cooling Mode	Natural cooling
	Installation Mode	Installed on 19-inch rack or cabinet
	Cabling Mode	Front inlet and front outlet
	Maintenance Mode	Front
	Protection Level	IP20
Input	AC Input Voltage	85–300 Vac, rated value: 220 Vac , 220/380 Vac three-phase or 220 Vac single phase or 110 Vac dual-live wire
	Input Frequency	45–66 Hz, rated value: 50/60 Hz
	Input Capacity	-
Output	AC Output	-
	Output Voltage	42–58 Vdc, rated value: 53.5 Vdc
	Maximum Capacity	8 kW
	Battery Breakers	1 × 100 A/1P
	LLVD Breakers	-
	BLVD Breakers	2 × 12 A/1P, 2 × 20 A/1P, 4 × 40 A/1P
	SPD	-
EMC & Safety	EMC	CISPR 22/EN 55022, IEC 61000-3-2, IEC 61000-3-3, IEC 61000-3-12, IEC61000-4-11
	Safety	IEC/EN60950-1/GB 4943
Environment	Operating Temperature	-40°C to +70°C (NOTE: The system can run for 8 hours at 70°C.)
	Storage Temperature	–40°C to +70°C
	Operating Humidity	5% – 95% (non-condensing)
	Altitude	0 – 4000 m (When the altitude ranges from 2000 m to 4000 m, the operating temperature decreases by 1°C for each additional 200 m.)

Product Type		R4830G1	R4830N2	R4815N1	R4815G1
Rectifier	Efficiency	> 95% (25% to 100% load) > 96% Max	> 93% (30% to 100% load) > 94% Max		> 95% (60% to 100% load) > 96% Max
	Maximum Power	1600W (176 to 300 Vac)	1740W (176 to 300 Vac)	1000W (176 to 300 Vac)	870W (176 to 300 Vac)
	Input Voltage	85 to 300 Vac / 85 to 400 Vdc	85 to 300 Vac		
	Working Temperature	-40 ℃ to +75 ℃ (full output below 55℃), ETS EN 300-019	-40 ℃ to +75 ℃ (full output below 45℃), ETS EN 300-019	-40 ℃ to +75 ℃ (full output below 55℃), ETS EN 300-019	-40 ℃ to +75 ℃ (full output below 65℃), ETS EN 300-019
	Dimension	95.5 mm(W) × 208 mm(D) × 40.8 mm(H)			
	Weight	≤1.2 kg	≤1.3 kg	≤1.1 kg	≤1.2 kg
	Cooling Mode	Forced Air cooling (Built-in fan)			
	Power Factor	≥ 0.99 (> 50% load at 230 Vac)	≥ 0.98 (> 50% load at 230 Vac), ≥ 0.99 (100% load at 230 Vac)		≥ 0.98 (> 50% load at 230 Vac)
	THD	≤ 5% (> 50% load at 230 Vac)			≤ 5% (> 65% load at 230 Vac)

Product Type		SMU01A	SMU01B	SMU01C
Controller	Signal Input	7 digital inputs (need interface Unit MUE02A or MUE02B)	7 digital inputs (need interface Unit MUE02A or MUE02B), 1 analog input	2 digital inputs, 2 analog inputs
	Alarm Output	8 dry contacts (need interface Unit MUE02A or MUE02B)		4 dry contacts
	Communication Port	RS232, RS485, FE	RS232, RS485	
	Display Mode	LCD		

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Embedded Power System

ETP48200-C5B4

Introduction

ETP48200-C5B4 is an AC/DC embedded power system with excellent performance such as high power efficiency, intelligent battery management, remote management, wide range of AC input voltage, etc.

The system can configure 4 pieces of 1U 50A high rectifier modules, and provides 200A rated current output.

ETP48200-C5B4 can be embedded in 19-inch rack or cabinet.

ETP48200-C5B4

Features

- 1U rectifier: high density, high efficiency (> 96%), excellent high temperature performance (fully output below 55℃)
- Wide operation temperature range of embedded power from – 40℃ to 65℃
- Hot-swappable
- Standard structure design, adapt 19/21 inch installation
- Compact design(only 5U in height), saving user space
- Excellent rectifier dormancy function increases system efficiency
- Intelligent battery management and protection help to prolong battery lifespan
- Support environmental signal monitoring and remote management through dry contact, serial interface or Ethernet interface

50A rectifier

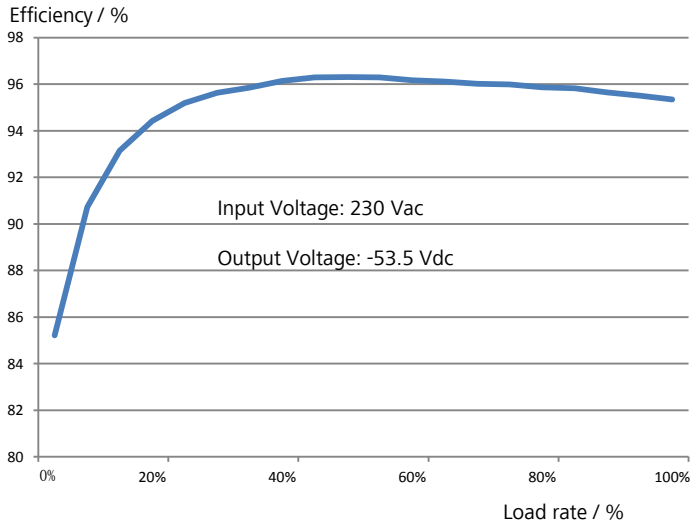
Controller

Scenarios

- Wireless base station
- Transmission network
- Communication network of enterprises

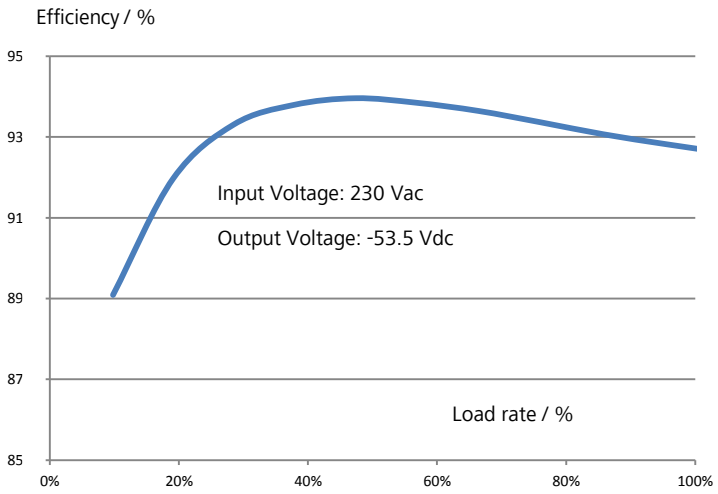
Efficiency Curve

Rectifier -3000 W-96%
(R4850G2)



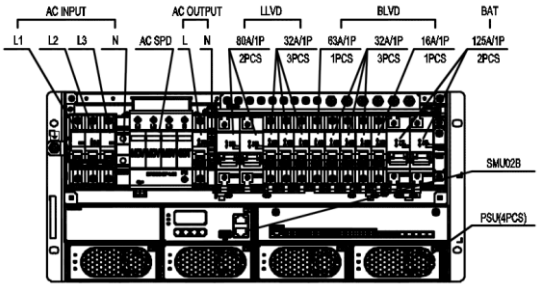
Energy Efficiency Curve

Rectifier -3000 W-94%
(R4850N6)

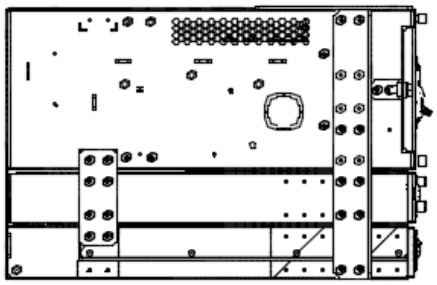


Energy Efficiency Curve

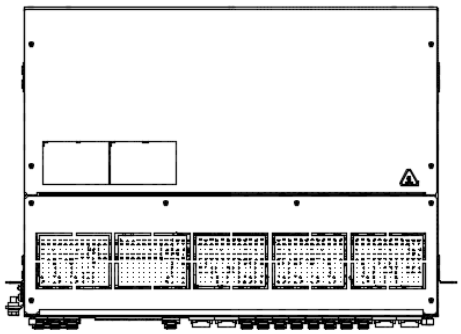
Dimension Drawings



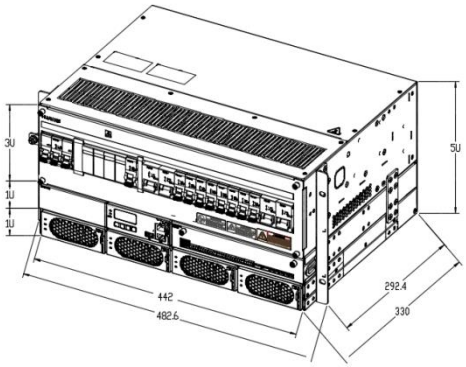
Front View of ETP48200-C5B4



Side View of ETP48200-C5B4

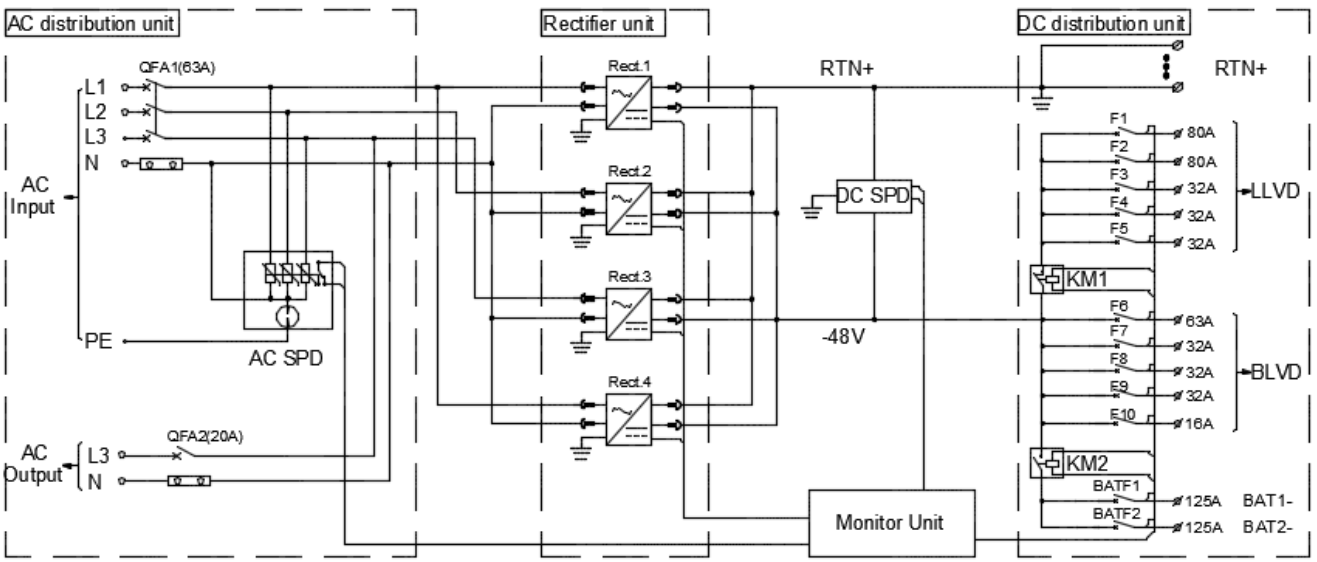


Top View of ETP48200-C5B4



Overview of ETP48200-C5B4

Schematic Diagram



ETP48200-C5B4

Specifications

Product Type		ETP48200-C5B4
System	Dimension	482.6 mm (W) × 330 mm (D) × 219.5 mm (5U,H)
	Weight	≤ 20 kg (without rectifiers)
	Cooling Mode	Natural cooling
	Installation Mode	Installed on 19-inch rack or cabinet
	Cabling Mode	Top inlet and top outlet
	Maintenance Mode	Front
	Protection Level	IP20
Input	AC Input Voltage	85–300 Vac, rated value: 220 Vac, 220/380 Vac three-phase or 220 Vac single phase
	Input Frequency	45–66 Hz, rated value: 50/60 Hz
	Input Capacity	1 × 63 A/3P
Output	AC Output	1 × 20 A/1P
	Output Voltage	42–58 Vdc, rated value: 53.5 Vdc
	Maximum Capacity	12 kW
	Battery Breakers	2 × 125 A/1P
	LLVD Breakers	2 × 80 A/1P, 3 × 32 A/1P
	BLVD Breakers	1 × 63 A/1P, 3 × 32 A/1P, 1 × 16 A/1P
	SPD	30/60 kA, 8/20 μs (AC) , 10/20 kA, 8/20 μs (DC)
EMC & Safety	EMC	EN 55022, IEC 61000-3-3, IEC 61000-3-12, IEC 61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC 61000-4-11
	Safety	IEC/EN60950-1 and GB4943
Environment	Operating Temperature	–40℃ to +65℃
	Storage Temperature	–40℃ to +70℃
	Operating Humidity	5% – 95% (non-condensing)
	Altitude	0 – 4000 m (When the altitude ranges from 3000 m to 4000 m, the operating temperature decreases by 1°C for each additional 200 m)

Product Type		R4850G2	R4850N6
Rectifier	Efficiency	> 95% (30% to 100% load) > 96% Max	> 92% (30% to 100% load) Near to 94% Max
	Maximum Power	3000W (176 to 300 Vac)	
	Input Voltage	85 to 300 Vac	
	Working Temperature	-40 ℃ to +75 ℃ (non-derating below 55 ℃), ETS EN 300-019	-40 ℃ to +75 ℃ (non-derating below 40 ℃), ETS EN 300-019
	Dimension	105 mm(W) × 281 mm(D) × 40.8 mm(H)	
	Weight	≤ 2.0 kg	
	Cooling Mode	Forced Air cooling (Built-in fan)	
	Power Factor	≥ 0.99 (> 50% load at 230 Vac)	
	THD	≤ 5% (> 50% load at 230 Vac)	

Product Type		SMU02B
Controller	Signal Input	6 digital inputs (need interface Unit UIM02C), 7 analog inputs (need interface Unit UIM02C)
	Alarm Output	8 dry contacts (need interface Unit UIM02C)
	Communication Port	RS232, RS485, FE
	Display Mode	LCD

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Embedded Power System

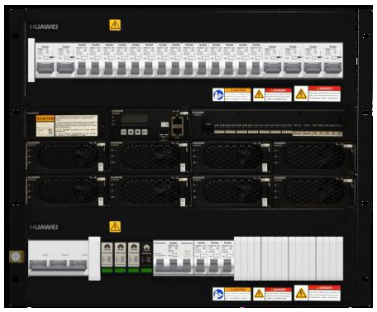
ETP48400-C9A2

Introduction

ETP48400-C9A2 is an AC/DC embedded power system with excellent performance such as high power efficiency, intelligent battery management, remote management, wide range of AC input voltage, etc.

The system can configure 8 pieces of 1U 50A high rectifier modules, and provides 400A rated current output.

ETP48400-C9A2 can be embedded in 19-inch rack or cabinet.



ETP48400-C9A2

Features

- 1U rectifier: high density, high efficiency (98% max), excellent high temperature performance (fully output below 55℃)
- Wide operation temperature range of embedded power from – 40℃ to 65℃
- Hot-swappable
- Standard structure design, adapt 19/21 inch installation
- Compact design(only 9U in height), saving user space
- Excellent rectifier dormancy function increases system efficiency
- Intelligent battery management and protection help to prolong battery lifespan
- Support environmental signal monitoring and remote management through dry contact, serial interface or

50A rectifier

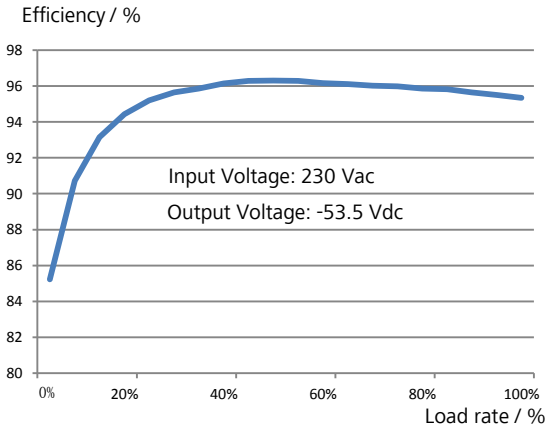
Controller

Scenarios

- Wireless base station
- Transmission network
- Communication network of enterprises

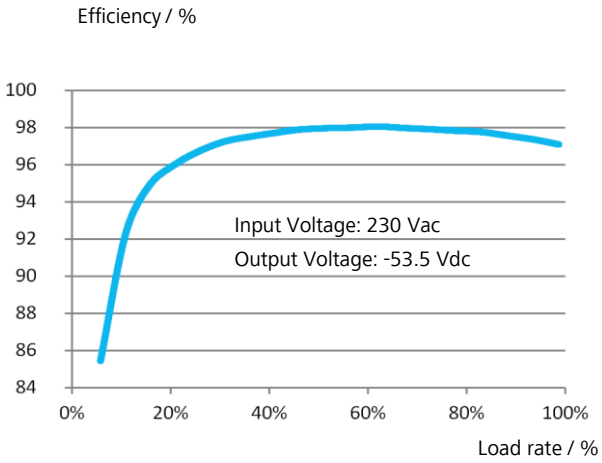
Efficiency Curve

Rectifier -3000 W-96%
(R4850G2)



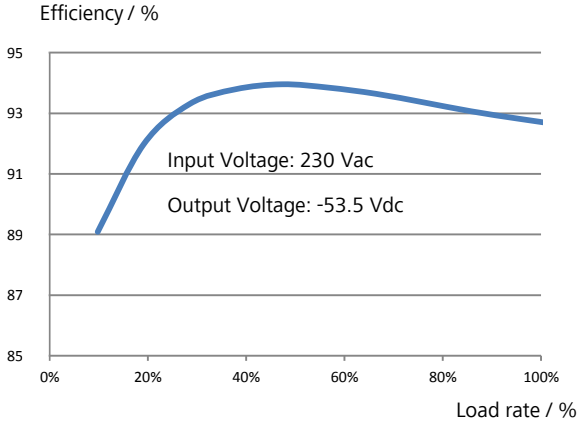
Energy Efficiency Curve

Rectifier -3000 W-98%
(R4850S1)



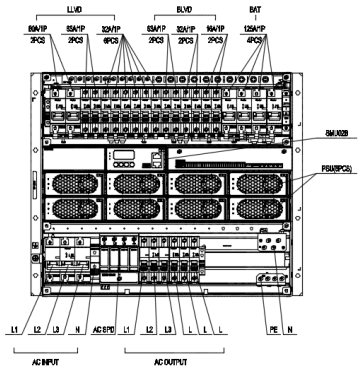
Energy Efficiency Curve

Rectifier -3000 W-94%
(R4850N6)

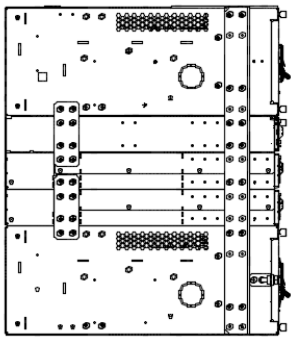


Energy Efficiency Curve

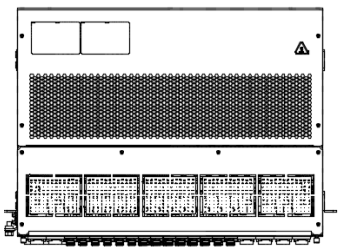
Dimension Drawings



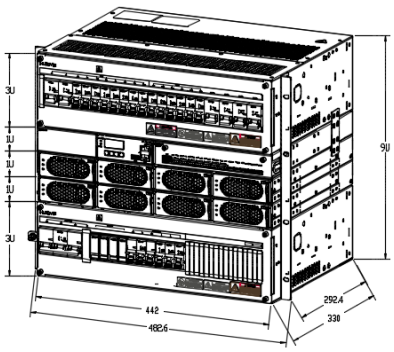
Front View of ETP48400-C9A2



Side View of ETP48400-C9A2

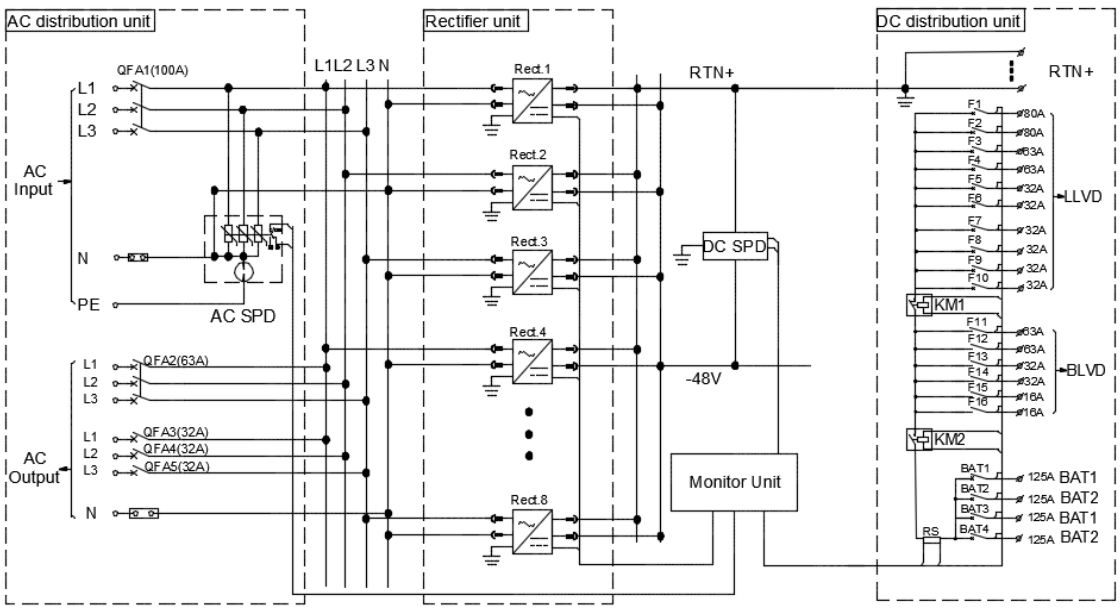


Top View of ETP48400-C9A2



Overview of ETP48400-C9A2

Schematic Diagram



ETP48400-C9A2

Specifications

Product Type		ETP48400-C9A2
System	Dimension	482.6 mm (W) × 330 mm (D) × 397.3 mm (9U,H)
	Weight	≤ 30 kg (without rectifiers)
	Cooling Mode	Natural cooling
	Installation Mode	Installed on 19-inch rack or cabinet
	Cabling Mode	Bottom inlet and top outlet
	Maintenance Mode	Front
	Protection Level	IP20
Input	AC Input Voltage	85–300 Vac, rated value: 220 Vac, 220/380 Vac three-phase four-line
	Input Frequency	45–66 Hz, rated value: 50/60 Hz
	Input Capacity	1 × 100 A/3P
Output	AC Output	1 × 63 A/3P, 3 × 32 A/1P
	Output Voltage	42–58 Vdc, rated value: 53.5 Vdc
	Maximum Capacity	24 kW
	Battery Breakers	4 × 125 A/1P
	LLVD Breakers	2 × 80 A/1P, 2 × 63 A/1P, 6 × 32 A/1P
	BLVD Breakers	2 × 63 A/1P, 2 × 32 A/1P, 2 × 16 A/1P
	SPD	20/40 kA, 8/20 μs (AC) , 10/20 kA, 8/20 μs (DC)
EMC & Safety	EMC	EN 55022, IEC 61000-3-3, IEC 61000-3-12, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-11
	Safety	IEC/EN60950-1 and GB4943
Environment	Operating Temperature	–40°C to +65°C
	Storage Temperature	–40°C to +70°C
	Operating Humidity	5% – 95% (non-condensing)
	Altitude	0 – 4000 m (When the altitude ranges from 2000 m to 4000 m, the operating temperature decreases by 1°C for each additional 200 m.)

Product Type		R4850G2	R4850S1	R4850N6
Rectifier	Efficiency	> 95% (30% to 100% load) > 96% Max	> 96% (30% to 100% load) 98% Max	> 92% (30% to 100% load) Near to 94% Max
	Maximum Power	3000W (176 to 300 Vac)		
	Input Voltage	85 to 300 Vac		
	Working Temperature	-40 ℃ to +75 ℃ (non-derating below 55 ℃), ETS EN 300-019		-40 ℃ to +75 ℃ (non-derating below 40 ℃), ETS EN 300-019
	Dimension	105 mm(W) × 281 mm(D) × 40.8 mm(H)		
	Weight	≤ 2.0 kg	≤ 2.5 kg	≤ 2.0 kg
	Cooling Mode	Forced air cooling (Built-in fan)		
	Power Factor	≥ 0.99 (> 50% load at 230 Vac)		
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Product Type		SMU02B
Controller	Signal Input	6 digital inputs (need interface Unit UIM02C), 7 analog inputs (need interface Unit UIM02C)
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