

ATTOM

Telecom Power System



Foundation of Digital Future

The highly reliable and scalable power protection and management for mission-critical telecom systems.



Customize for Efficiency

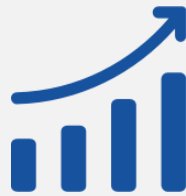
Why Work with Attom

We are an expert team of data center products and solutions



Quality

Products designed with heart featuring reliable quality and balanced cost to improve your business margin and performance.



Speed

A professional team always standby with service spirit and quick response to support your business agility.



Flexibility

Fully customizable as per your requirements to build your own product solution and boost your own business.

Certifications



Efficiency Prefabricated.



Telecom DC Power System

Capacity range: 60~1800A

ATTOM -48VDC power system comes with standard 19-inch rack mount design with a wide range of power inputs, intelligent battery management and remote monitoring.



Controller Module



Rectifier Module



Solar Module

Key Features:

- Up to 97% efficiency
- Rectifier module adopts hot swap technology for Plug and Play installation
- Intelligent battery management system for long battery life
- Rack mount power frame easily integrated into cabinet
- High temperature working up to 75C
- Standard lightning protection design for harsh environments
- Support remote monitoring with multi-channel serial port, dry contact, and network interface output

Telecom DC Power System

Rectifier Module

MR482000HH

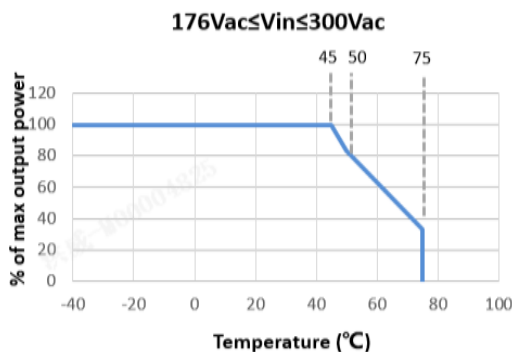


-48VDC | 1700W | 30A

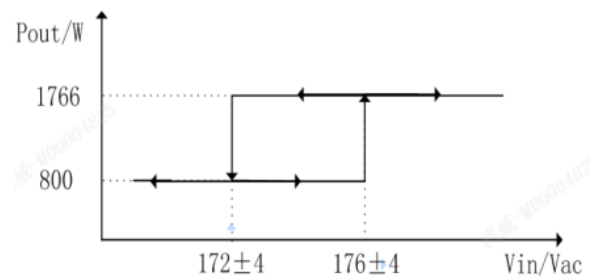
Designed to convert standard AC supply voltages into stable nominal -48VDC voltage. **MR482000HH** is a constant power rectifier designed with the latest patented switch mode technology, using DSP (Digital Signaling Processor) functionality for efficient operation. Ideal for outdoor enclosures and small cell applications where space is limited.

- Maximum Efficiency >93%
- Full output 45C and partial derating from 45C to 75C
- 1U height compact design, high power density
- Wide AC input range 85-300 Vac, stable working <176Vac with derating

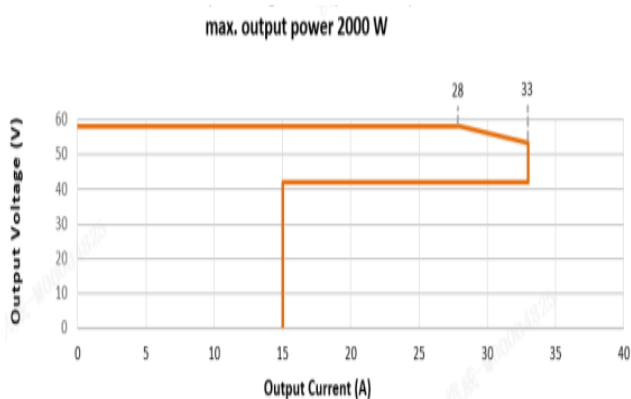
Output Power vs. Temperature



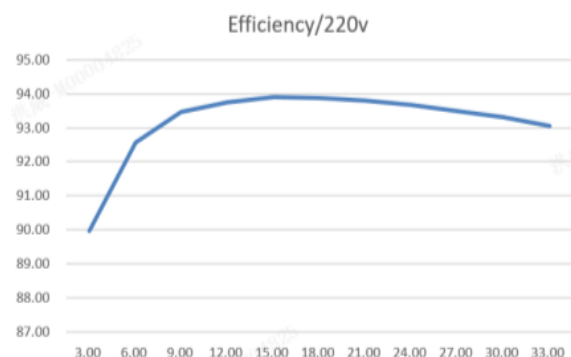
Output Power vs. Input Voltage



Output Voltage vs. Output Current



Efficiency 220Vac



Telecom DC Power System

Rectifier Module

MR483000HG

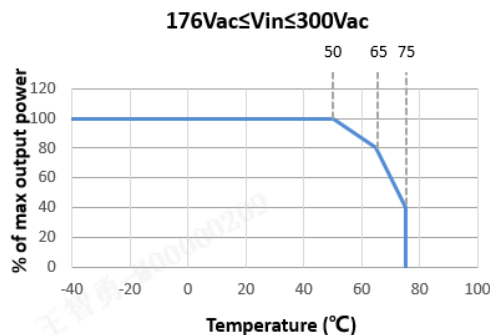


-48VDC | 3000W | 50A

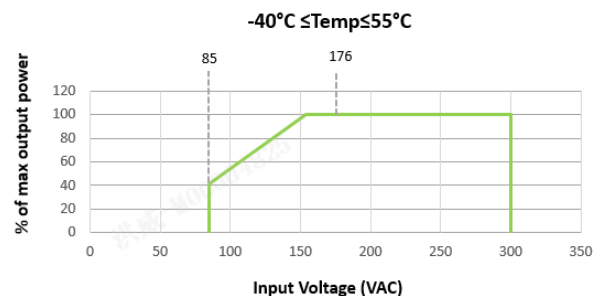
Designed to convert standard AC supply voltages into stable nominal -48VDC voltage. **MR483000HG** is a constant power rectifier designed with the latest patented switch mode technology, using DSP (Digital Signaling Processor) functionality for efficient operation. Ideal for outdoor enclosures and small cell applications where space is limited.

- Maximum Efficiency >97%
- Full output 55C and partial derating from 55C to 75C
- 1U height compact design, high power density
- Wide AC input range 85-300 Vac, stable working <176Vac with derating

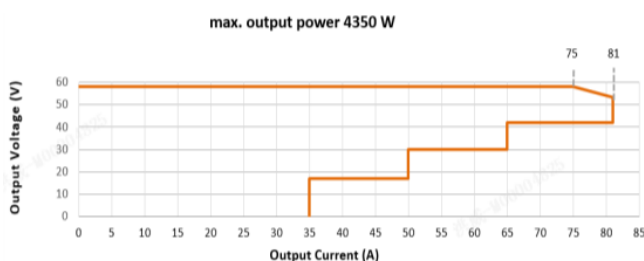
Output Power vs. Temperature



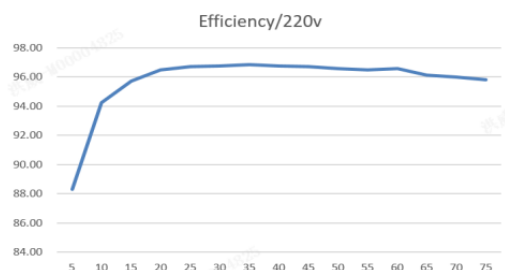
Output Power vs. Input Voltage



Output Voltage vs. Output Current



Efficiency 220Vac



Telecom DC Power System

Solar Module

MS483000HG

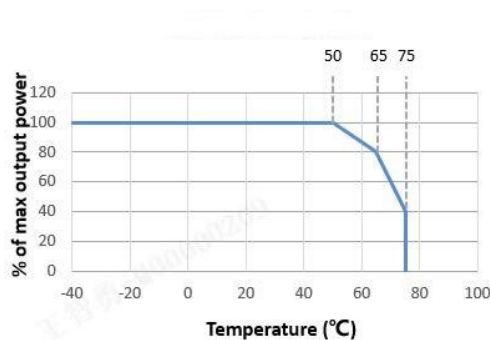


-48VDC | 3000W | 50A

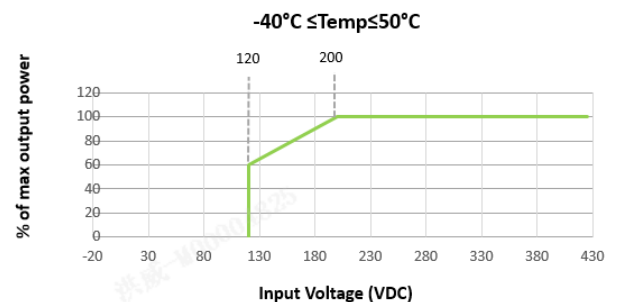
Designed to convert standard Photovoltaic voltages into stable nominal -48VDC voltage. **MS483000HG** is a constant power rectifier designed with the latest patented switch mode technology, using DSP (Digital Signaling Processor) functionality for efficient operation. Ideal for outdoor enclosures and small cell applications where space is limited.

- Maximum Efficiency >96%
- Full output 50C and partial derating from 50C to 75C
- 1U height compact high power density design
- Wide DC input range 120-425 VDC

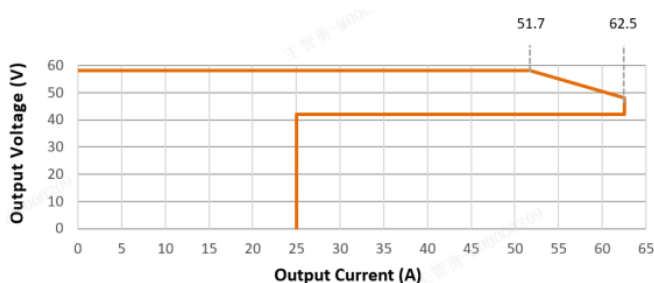
Output Power vs. Temperature



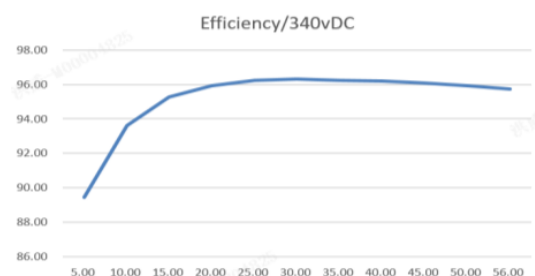
Output Power vs. Input Voltage



Output Voltage vs. Output Current



Efficiency 340Vdc



Telecom DC Power System

-48VDC Rectifier Power System



Technical Data			
Model	T-48060RN	T-48090RN	T-48200RN
AC Distribution			
Input Mode	Single Phase	Single Phase	3 Phase 5Wires
Input Capacity	1X30A/2P	1X63A/2P	1X30A/4P
Input Frequency	45~66Hz, Rated:50Hz/60Hz		
AC SPD	AC SPD to be installed in the cabinet		
DC Distribution			
Output Voltage	-42~-58VDC, Rating: -53.5VDC		
Maximum Capacity	3.4kW	5.1kW	12kW
Rated current (A)	60	90	200
LLVD Branches	/	/	LLVD1:2x30A/1P, 2x60A/1P LLVD2:1x30A/1P, 1x60A/1P
BLVD Branches	3*65A/Terminals	6*30A/1P	1x30A/1P, 1x10A/1P
Battery Breakers	1X65A/2P	2X63/1P	2X100/1P
DC SPD	/	/	/
Controller			
Display type	LCD		
Communication Port	RS485,SNMP,Ethernet		
Rectifier module			
Module capacity	1700W(176-300Vac) *2	1700W(176-300Vac) *3	3000W(176-300Vac) *4
THD	≤10%	≤10%	≤5%
Efficiency	Up to 96%		
Environment			
Operational Condition	-40 ~ +75°C, 5-95%RH (Non condensing)		
Heat dissipation method	Fan cooling		
Working altitude	0~4000m. When altitude 3000~4000m, the max. temperature derate by 1°C / 200m		
IP Level	IP20		
Noise	50dB		
Physical			
Dimension (W*D*H) mm	442*255*44 (1U)	442*255*88 (2U)	483*255*132 (3U)

Notes:

- 1) SNMP protocol is optional.
- 2) The technical data is subject to changes without prior notification.
- 3) Customization is acceptable upon further communication.

Telecom DC Power System

-48VDC Rectifier Power System



Technical Data					
Model	T-48300RN	T-48400RN	T-48600RN	T-481000RN	T-481800RN
AC Distribution					
Input Mode	3 Phase 5Wires	3 Phase 5Wires	3 Phase 5Wires	3 Phase 5Wires	3 Phase 5Wires
Input Capacity	1X63A/4P	1X63A/4P	1X100A/3P	2X160A/3P	2X200A/3P
Input Frequency	45-66Hz, Rated:50Hz/60Hz				
AC SPD	20kA/40kA, 8/20µs	20kA/40kA, 8/20µs	20kA/40kA, 8/20µs	20kA/40kA, 8/20µs	20kA/40kA, 8/20µs
DC Distribution					
Output Voltage	-42~-58Vdc, Rating: -53.5Vdc				
Maximum Capacity	18kW	24kW	36kW	60kW	96kW
Rated current (A)	300	400	600	1000	1800
LLVD Branches	2×32A/1P, 2×40A/1P, 3×63A/1P	2×32A/1P, 2×40A/1P, 2×63A/1P, 1×125A/1P	1×125A/1P, 4×100A/1P, 4×63A/1P, 2×40A/1P, 4×25A/1P, 3×16A/1P	5×250A/1P, 21×63A/1P(Fuse)	6×250A/1P, 30×63A/1P(Fuse)
BLVD Branches	2×6A/1P, 2×10A/1P, 2×16A/1P	1×10A/1P, 2×16A/1P, 1×63A/1P	1×125A/1P, 2×63A/1P, 2×40A/1P, 1×16A/1P	9×16A/1P, 9×32A/1P(Fuse)	10×16A/1P, 10×32A/1P(Fuse)
Battery Breakers	2×125A/1P	3X125/1P	3×125A/2P	2X800/1P(Fuse)	2X800/1P(Fuse)
DC SPD	10kA/20kA, 8/20µs	10kA/20kA, 8/20µs	10kA/20kA, 8/20µs	10kA/20kA, 8/20µs	10kA/20kA, 8/20µs
Controller					
Display type	LCD				
Communication Port	RS485, SNMP, Ethernet				
Rectifier module					
Module capacity	3000W(176-300Vac)*6	3000W(176-300Vac)*8	3000W(176-300Vac)*12	3000W(176-300Vac)*20	4000W(176-300Vac)*24
THD	≤5%	≤5%	≤5%	≤5%	≤5%
Efficiency	Up to 96%				
Environment					
Operational Condition	-40 ~ +75°C, 5-95%RH (Non condensing)				
Heat dissipation method	Fan cooling				
Working altitude	0-4000 m Altitude 3000-4000m, the max. temperature derates by 1°C / 200m				
IP Level	IP20				
Noise	50dB				
Physical					
Dimension (W*D*H) mm	483*330*221 (5U)	483*330*266 (6U)	483*330*442 (10U)	600*580*2000 (Cabinet)	600*580*2000 (Cabinet)

Notes:

- 1) SNMP protocol is optional.
- 2) The technical data is subject to changes without prior notification.
- 3) Customization is acceptable upon further communication.

Telecom DC Power System

-48VDC Hybrid Rectifier/Solar Power



Technical Data			
Model	T-48050RH	T-48700RH	T-48800RH
AC&DC Distribution			
Input Mode	Grid: 1 Phase 3Wires Solar: 120Vdc-340Vdc	Grid: 3 Phase 5Wires Solar: 120Vdc-340Vdc	Grid: 3 Phase 5Wires Solar: 120Vdc-340Vdc
Input Capacity	1X30A/2P	1X125A/4P & 4x63A/2P	1X125A/4P & 4x63A/2P
Input Frequency	45-66Hz, Rated:50Hz/60Hz		
Input SPD	/	Grid: 20kA/40kA, 8/20µs Solar: 10kA/20kA, 8/20µs	Grid: 20kA/40kA, 8/20µs Solar: 10kA/20kA, 8/20µs
DC Distribution			
Output Voltage	-42~-58Vdc, Rating: -53.5Vdc		
Maximum Capacity	3kW	42kW	48kW
Rated current (A)	50	700	800
LLVD Branches	/	2×32A/1P, 2×63A/1P, 4×125A/1P	8×63A/1P, 3×125A/1P
BLVD Branches	4*65A/Terminals	1×6A/1P, 1×10A/1P, 1×16A/1P, 1×63A/1P	2×32A/1P, 3×63A/1P
Battery Breakers	1X65A/2P	4X125/1P	4X125/1P
DC SPD	/	10kA/20kA, 8/20µs	10kA/20kA, 8/20µs
Controller			
Display type	LCD		
Communication Port	RS485, SNMP, Ethernet		
Rectifier Module & Solar Module			
Module capacity	Rectifier: 1700W(176-300Vac)*1 Solar: 3000W(200-425Vdc)*1	Rectifier: 3000W(176-300Vac)*10 Solar: 3000W(200-425Vdc)*4	Rectifier: 3000W(176-300Vac) *12 Solar: 3000W(200-425Vdc)*4
THD	≤5%	≤5%	≤5%
Efficiency	Up to 96%		
Environment			
Operational Condition	-40 ~ +75°C, 5-95%RH (Non condensing)		
Heat dissipation method	Fan cooling		
Working altitude	0-4000 m Altitude 3000-4000m, the max. temperature derates by 1°C / 200m		
IP Level	IP20		
Noise	50dB		
Physical			
Dimension (W*D*H) mm	442*255*44(1U)	483*330*355(8U)	483*330*622(14U)

Notes:

- 1) SNMP protocol is optional.
- 2) The technical data is subject to changes without prior notification.
- 3) Customization is acceptable upon further communication.

EPS Inverter Power System

Capacity range: 3~5kVA

A highly attractive EPS Inverter targets commercial, banking and industrial applications, from ATM, CCTV, elevator to big cooling systems. Suitable for either single phase or three-phase applications to meet diverse demands.



Key Features:

- Pure sine wave inverter
- Built-in AC charger up to 50A/60A
- Selectable charging current based on applications
- Configurable parameter setting via LCD display
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Selectable input voltage range for home appliances and personal computers
- Cold start function
- Parallel operation with up to 9 units
- Optional MPPT or PWM solar charger

Inverter EPS Power System

Inverter EPS Power System



MODEL	EPS 3KW	EPS 4KW	EPS 5KW
Rated Power	3000VA/3000W	4000VA/4000W	5000VA/5000W
INPUT			
Voltage	220/230/240 VAC	220/230/240 VAC	220/230/240 VAC
Voltage Range	170-255 VAC	170-255 VAC	170-255 VAC
Frequency Range	50 Hz/60 Hz (Auto sensing)	50 Hz/60 Hz (Auto sensing)	50 Hz/60 Hz (Auto sensing)
OUTPUT			
AC Voltage Regulation (Batt. Mode)	220/230/240VAC \pm 5%	220/230/240VAC \pm 5%	220/230/240VAC \pm 5%
Surge Power for 5 seconds	10000VA	10000VA	10000VA
Efficiency (Peak)	93%	93%	93%
Transfer Time	< 10 ms	< 10 ms	< 10 ms
Waveform (Batt. Mode)	Pure sine wave	Pure sine wave	Pure sine wave
BATTERY			
Battery Voltage	48 VDC	48 VDC	48 VDC
CC/CV Charge Voltage	56.4 VDC	56.4 VDC	56.4 VDC
Floating Charge Voltage	53.6 VDC	53.6 VDC	53.6 VDC
Overcharge Protection	60 VDC	60 VDC	60 VDC
AC CHARGER			
Maximum AC Charge Current (Adjustable)	2.5~50 A	2.5~50 A	2.5~50 A
Charging modes	3 steps for CC, CF and Floating	3 steps for CC, CF and Floating	3 steps for CC, CF and Floating
SOLAR CHARGER (option)			
Maximum PV Array Power	4000W	4000W	4000W
MPPT Range @ Operating Voltage	60 VDC ~ 115 VDC	60 VDC ~ 115 VDC	60 VDC ~ 115 VDC
Maximum PV Array Open Circuit Voltage	145 VDC	145 VDC	145 VDC
Maximum Solar Charge Current	80 A	80 A	80 A
PARALLEL			
Maximum Parallel units	Up to 9 units	Up to 9 units	Up to 9 units
Parallel Type	Single Phase or Three Phase	Single Phase or Three Phase	Single Phase or Three Phase
Transfer Time in Parallel Mode	<40ms	<40ms	<40ms
PHYSICAL			
Dimension, D x W x H (mm)	400 x 438 x 88 (2U)	400 x 438 x 88 (2U)	400 x 438 x 88 (2U)
Net Weight (kgs)	9.1	9.1	9.1
INTERFACE			
Communication	Modbus RS-485	Modbus RS-485	Modbus RS-485
Dry Contact	Deliver signal to external device such as generator	Deliver signal to external device such as generator	Deliver signal to external device such as generator
OPERATING ENVIRONMENT			
Humidity	5% to 95% Relative Humidity (Non-condensing)	5% to 95% Relative Humidity (Non-condensing)	5% to 95% Relative Humidity (Non-condensing)
Operating Temperature	0°C to 40°C	0°C to 40°C	0°C to 40°C
Storage Temperature	-15°C to 60°C	-15°C to 60°C	-15°C to 60°C

We believe the world is
being totally connected.

The connections are
creating digital intelligence
and a better future.

We design and deliver
data center
infrastructure products
to build foundation of
digital future.



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