



500 to 1500W 1u Rack for RPS and Bulk Power Source PSA1554-605 Front End Power Supplies



Features	
<ul style="list-style-type: none"> ● Front end for +50V or +56V applications ● Hot Swap Fault Tolerant ● Redundant Power N+1 ● Allow Option to Combine with Batteries for DC UPS ● 12V Standby Voltage 	<ul style="list-style-type: none"> ● IEEE802.3af Power Source ● 19" Rack at 1U High ● Full Power RPS Source for 96PoE Ports ● Overload Current Protection on each Output Connector
Applications	
<ul style="list-style-type: none"> ● VoIP Phones ● DC UPS 	<ul style="list-style-type: none"> ● Network RPS Power Source ● Lighting Systems with Single UPS
Safety Approvals	
<ul style="list-style-type: none"> ● Power supplies approved for cUL and CE 	
Mechanical Characteristics	
<ul style="list-style-type: none"> ● Width: 48.26cm (19in) ● Depth: 35.56cm (14in) 	<ul style="list-style-type: none"> ● Height: 4.41cm (1.74in) ● Weight: 8.2Kg (18lbs)
Output Specifications	

Rack	Power Supplies
PSA1554-605	Power Supplies 3 X 500W (Ordered separately)
	PSM500-210 50 V
	PSM500-216 56 V
Included in 19" Rack are 2 Blank Front panel for un-used Power slots, 2 mounting L brackets and screws. *Note: ETSI brackets are available. Please contact Phihong Sales.	

Phihong reserves the right to make changes without further notice. Please consult Phihong USA and visit www.phihong.com for the most up-to-date specifications.

INPUT:**AC Input Voltage Range**

90 to 264VAC; 47Hz to 63 Hz

AC Input Line Fuse

10A/250V per Module

(Located internal to PSM500-210, -216)

Maximum Input Current

3 x 6A (RMS) Max. for 115VAC

3 x 3A (RMS) Max. for 230VAC

AC Input socket

IEC, 3pin 10A/15A 250V

(Located on PSM500-210, -216 module, x 3 per rack)

OUTPUT:**Maximum Output Power**

1500W: 4 Outputs 50V @10A or 56V @9A

Optional single output 50V @30A

56V @ 27A

Output Voltage Range

50V_{main} (±0.5V) - PSM500-210

56V_{main} (±0.5V) - PSM500-216

12V(±1V) standby

Max. loads current:

Main 30A = 3 X PSM500-210

Main 27A = 3 X PSM500-216

S/B 1.5A

Efficiency of each Module

80% typical at Max. load and 115VAC

83% typical at Max. load and 230VAC

ENVIRONMENTAL:**Temperature**

Operation 0 to +40°C

Non-operation -30 to +70°C

Humidity

Operation 8 to 90%

Non-Operation 5 to 95%

EMC

EN55022 conducted Class B

EN55022 radiated Class A

(using 3x PSM500-210, or -216 in rack)

Isolation Test

Output to Ground: 1500VAC for 1 minute

Immunity EN50082-1

ESD: EN61000-4-2. Level 3

RS: EN61000-4-3. Level 3

EFT: EN61000-4-4. Level 2

Surge: EN61000-4-5. Level 3

CS: EN61000-4-6. Level 3

Voltage Dips EN61000-4-11

Harmonic: EN61000-3-2

FEATURE:**Over Current, Short Circuit Protection**

Each output is individually protected by PTC's that protect system wiring from excessive current. Automatic recovery

Load Sharing

Individual unit offers an active feedback circuit, current share and internal isolated diodes. The units in the rack are connected in parallel each sharing ±10% load.

AC Fail

Shutdown automatically without damage

Indicators

LEDs next to each connector to indicate protection is active

Connectors on the rack

(see diagram page for more detail)

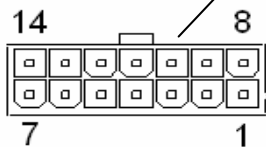
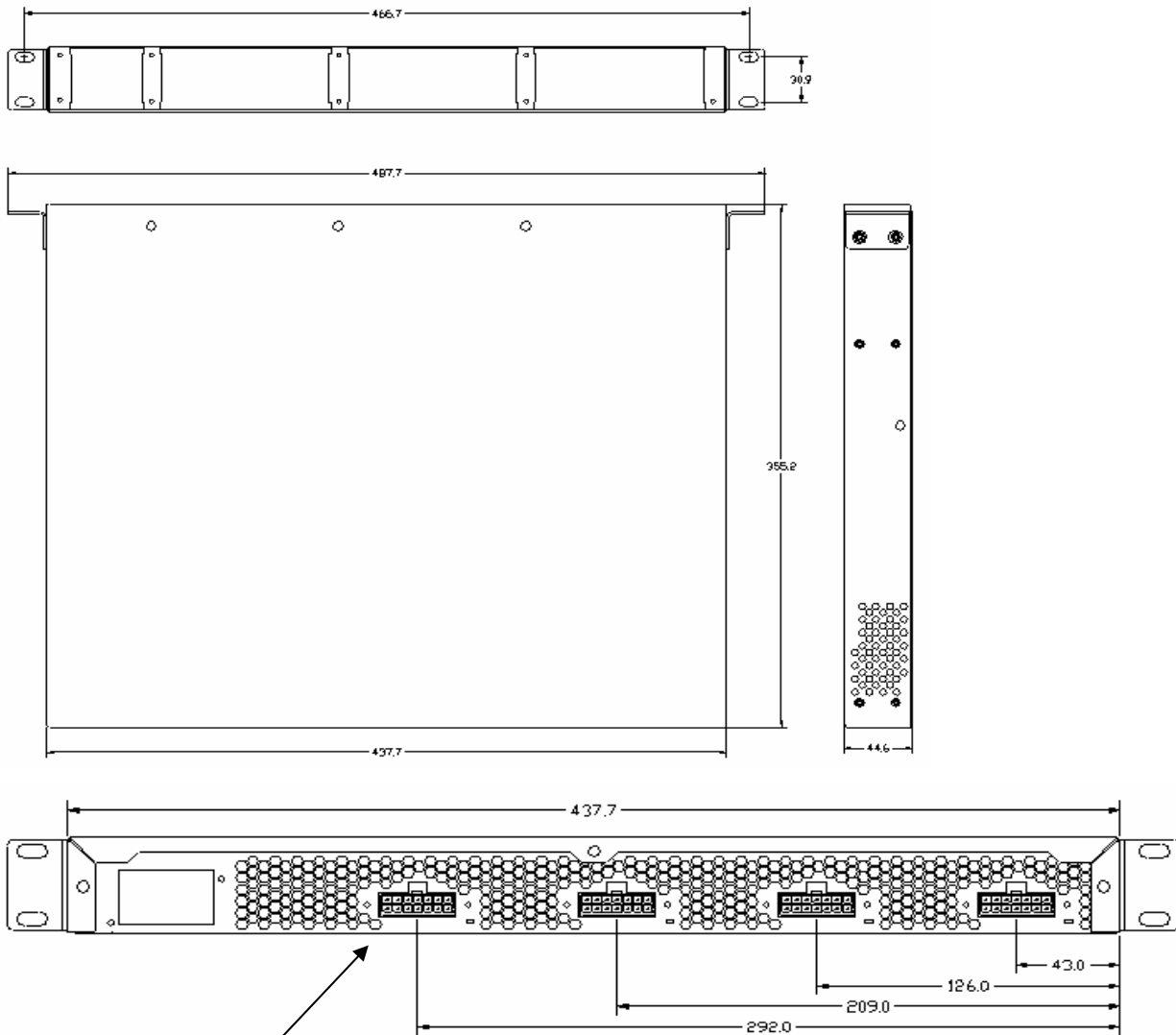
Output Connector

14 pin, Molex p/n 39-30-0140 or equivalent.

Output Mating Connector

14 pin mate, Molex p/n 39-01-2145; pin p/n 39000077 or equivalent

Dimension Diagram Unit: mm



14 pin, Output connector (“A, B, C and D” rear view from right to left) 4 per rack.

***Note:** A fault **low** signal at pin13 o/c “A, B or C” represents a fault to Module “1, 2 or 3”.
A fault **low** signal at pin13 o/c “D” represents a global fault to the rack.

Signals	Reference Pin
50V or 56V	1
50V or 56V	2
50V or 56V Return	3
Current Share	4
Not Used	5
Not Used	6
Standby 12V	7
50V or 56V	8
50V or 56V Return	9
50V Return	10
Not Used	11
Not Used	12
*FAULT	13
Common GND, standby and fault	14