

Power Systems & Controls

Series CONTINUUM -- Phase 3 Static UPS



The Series Continuum UPS incorporates the latest technology in solid state PWM Inverter and PWM Rectifier/Charger controls combined with the use of an "all IGBT" topology for the most efficient double conversion process.

This advancement in digital technology gives the PS&C Series Continuum a great advantage over other typical UPS systems. We have not used older technology (i.e. diodes & SCR's) on

the front end in order to reduce cost. PS&C has over 40 years vested in the development of UPS equipment designed for the mission critical industry. PS&C has created the best solution for the task. With an incredible input range reaching further, this machine will support equipment in the most extreme electrical conditions. With THD less than 1%, efficiency up to 97% and Input Power Factor at .99 minimum, we know our customers will be amazed. Our Series Continuum comes with a (3) Year Warranty which can be bundled with our "World Class Service Division" gives our customers the type of support which is not only required today, but is mandatory for industry to continue to move on a daily basis.

Standard Equipment Features

- PWM IGBT Rectifier
- PWM IGBT Inverter
- Transformer-less
- IGBT Battery Charger
- Full Rated Static Bypass switch
- True On-Line double conversion
- Input PF is greater than .99
- Input Current THD is less than 3%
- Wide Input Range
- Input Frequency is 45 to 65 Hz
- 100% unbalanced load capability
- Lower Audible Noise
- Front access
- Internal Back feed Protection
- Power Factor Correction for 100% generator compatibility
- Active Power Factor Correcting Front End
- SNMP Support over Ethernet
- RS485 communications port for modbus
- Modbus over TCP/IP support for Ethernet
- Monochrome 1/4 VGA Touch Screen

Optional Features

- Split input/output voltage
- Nema 3R Enclosures
- Back-up diesel generator with transfer switch (ATS)
- Remote monitor (Status)
- HTTP Monitoring Support
- Parallel capability
- "Turn-key" Installation
- PDU Module Cabinet
- Maintenance Bypass Module Cabinet
- Remote communications

System Specifications

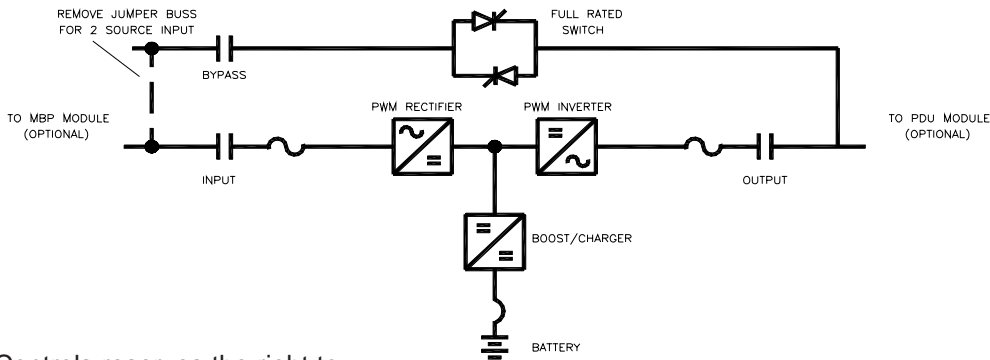
Note: 208V & 480V models are transformerless, 380V & 575V require Transformers

INPUT		OUTPUT	
Nominal Voltage Available		Nominal Voltage Available	
➤ @ 60 Hz	208, 480, 575	➤ @ 60 Hz	208, 480, 575
➤ @ 50 Hz	208, 380	➤ @ 50 Hz	208, 380
➤ Phase	3 Phase 4 Wire + Ground	➤ Phase	3 Phase 4 Wire + Ground
➤ Frequency Tolerance	60 Hz +5%, -15%	➤ Frequency Regulation	± 0.1%
➤ Magnitude Tolerance		➤ Voltage Adjustment	± 5% manually
➤ Continuous	+10%, -15% (-30% opt.)	➤ Voltage Regulation	
➤ Transient	1500v for 1 ms	➤ Balanced Load	± 1.0%
➤ Current Distortion	< 3%	➤ 100% Imbalance	± 5% phase to phase
General		Voltage THD (Total Harmonic Distortion)	
➤ Input Power Factor	> .99	➤ Single	1% Max
➤ Efficiency	Up to 97%	➤ Total	3% Max – No load to full
Battery		Overload Capacity	
➤ Type	Sealed, low maintenance	➤ 100% Rating	Continuous
➤ Float Voltage	2.25V/Cell ± 0.05V/Cell	➤ 125%	10 Minutes
➤ Equalize	1.06 x Float Voltage	➤ 150%	2 Minutes

SERIES CONTINUUM DIMENSIONS & WEIGHTS				
KVA/KW	H (CM)	W (CM)	D (CM)	W (KGS)
30/24	60 (152)	44 (112)	34 (86)	400 (198)
50/40	60 (152)	44 (112)	34 (86)	450 (223)
75/60	60 (152)	44 (112)	34 (86)	650 (322)
100/80	72 (183)	48 (122)	34 (86)	900 (445)
125/100	72 (183)	48 (122)	34 (86)	1000 (495)
150/120	72 (183)	48 (122)	34 (86)	1200 (594)
175/140	72 (183)	48 (122)	34 (86)	1300 (644)
200/160	72 (183)	48 (122)	34 (86)	1400 (693)
250/200	72 (183)	48 (122)	34 (86)	1500 (743)
300/240	72 (183)	54 (137)	34 (86)	1600 (792)
400/320	72 (183)	54 (137)	34 (86)	1800 (891)
500/400	72 (183)	54 (137)	34 (86)	2000 (990)

Battery Cabinet Dimensions = Consult Factory

Output Power Factor	
➤ Power Factor	.9 leading to .9 lagging
ENVIRONMENT	
➤ Temperature	32° to 104° F (0° to 40° C)
➤ Altitude	0 to 6600 FT (0 to 2000M)
➤ Humidity	0 to 95% non-condensing
➤ Noise Level	65 dBa @ 3 FT (1M)



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