

MODULAR INVERTER SYSTEM

INPUT 48 Vdc OUTPUT 120 Vac or 120/240 Vac or 120/208 Vac



The BPC is a readymade inverter package designed to provide a pure sine wave AC supply as a complement to any existing DC power solution.

Compact, friendly Plug & Play installation, self standing open relay rack ideal for low MTTR applications in power room. It can be used either to piggyback DC power sources or as fully integrated AC power center with built-in in and out protections. Thanks to TSI specifics it provides outstanding power conditioning and high end availability.

APPLICATIONS

Convenient for any Mission Critical Applications. A must when any glitch matters.

The solution to power up demanding AC loads at low OPEX from a combination of AC and DC sources present on site.

It reveals its full worth in harsh electrical environments and for long autonomy requirements. It handles any type of AC load including laser printers, compressors and induction motors.

Typical applications include core network infrastructure components (MSC & HLR servers, core routers, SDP/SCP...), HVAC equipments, signaling concentrators, datacenter...





MAIN FEATURES

- >>> Permanent AC to AC double conversion
- >>> Great disturbance rejection rate
- Redundant AC & DC input sources
- >>> Source changover not visible by the load
- >>> Highly efficient energy conversion
- >>> Preserve battery life expectancy
- >>> Compact footprint
- Offers space for AC distribution or integration with 3rd party equipments
- >>> Operates until 65°C (de-rating may apply)
- Can be provided with 120Vac, 120/240 Vac and 120/208 Vac system configurations



| Applicable standards MTBF (each module) Efficiency (Typically Eshanaced Power Conversion / On Line Befficiency (Typically Eshanaced Power Conversion / On Line Line Befficiency (Typically Eshanaced Power Conversion / On Line Line Befficiency (Typically Eshanaced Power Conversion / On Line Befficiency (Typically Eshanaced Power Conversion / On Line Line Befficiency (Typically Eshanaced Power Conversion / On Line Line Befficiency (Typically Eshanaced Power Conversion / On Line Line Befficiency (Typically Eshanaced Power Conversion / On Line Line Befficiency (Typically Eshanaced Power Conversion / On Line Befficiency (Typically E | | | | |
|---|--|---|--|--|
| MTBF (each module) Efficiency (Pipical): Enhanced Power Conversion / On Line Completed Completed Completed Completed Completed GIRST office vibration of to 10th-0-, 1g Transcort vibration of 10th-0-, 1g T | GENERAL | | | |
| Efficiency (Typical): Enhanced Power Conversion / On Line 186% / 191% The Redundant Systems | Applicable standards | IEC 61000-4 / FCC part 15 / cULus 1778 Listed / ROhS | | |
| Delectric strength DC/AC True Redundant Systems 3 Disconnection levels on AC out and DC in power ports 4 disconnection levels on AC out and DC in power ports 4 disconnection levels on AC out and DC in power ports 4 disconnection levels on AC out and DC in power ports 4 disconnection levels on AC out and DC in power ports 4 disconnection levels on AC out and DC in power ports 4 disconnection levels on AC out and DC in power ports 4 disconnection levels on AC out and DC in power ports 4 disconnection levels on AC out ports 4 power | MTBF (each module) | 240,000 hrs | | |
| The Redundant Systems 3 Disconnection levels on AC out and DC in power ports 4 disconnection levels on AC out and DC in power ports 5 Disconnection levels on AC out and DC in power Wibration 1 GRS3 office vibration 15 100 http. 20 is 100 to 500 http. 1.5g Transport vibration 6-100 http. 20 is 100 to 500 http. 1.5g Transport vibration 6-100 http. 20 is 100 to 500 http. 1.5g Transport vibration 6-100 http. 20 is 100 to 500 http. 1.5g Transport vibration 6-100 http. 20 is 100 to 500 http. 1.5g Transport vibration 6-100 http. 20 is 100 to 500 http. 1.5g Transport vibration 6-100 http. 20 is 100 to 500 http. 1.5g Transport vibration 6-100 http. 20 is 100 to 500 http. 1.5g Transport vibration 6-100 http. 20 is 100 to 500 http. 1.5g Transport vibration 6-100 http. 20 is 100 to 500 http. 1.5g Transport vibration 6-100 http. 20 is 100 to 500 http. 1.5g Transport vibration 6-100 http. 20 is 100 to 500 http. 1.5g Transport vibration 6-100 http. 1.5g Transport vibration | Efficiency (Typical): Enhanced Power Conversion / On Line | 95% / 91% | | |
| Silesconnection levels on AC out and DC in power ports disconnection levels on AC in port disconnection levels on AC in port Activation Transport vibration 5-100-Hz 0,5g 100 to 500-fz-1,5g Transport vibration 5-100-Hz 0,5g 100 to 500-fz-1,5g ACTIVATION CARRY STATE ACTI | Dielectric strength DC/AC | 4,300 Vdc | | |
| SPR3 office vibration 1 1007-0_1g Transport breaton 1 1007-0_1g Tr | True Redundant Systems 3 Disconnection levels on AC out and DC in power ports 4 disconnection levels on AC in port | Compliant | | |
| Altitude above sea | Vibration | Transport vibration 5-100Hz 0,5g 100 to 500hz-1,5g | | |
| Operating temperature measured at both room and inlet levels 4 0°C to 65°C with 28°C voterating ™ 104°F to 148°F with 186°F derating ™ 4.01 to 70°C 4.01 to 168°F with 186°F derating ™ 4.01 to 70°C 4.01 to 168°F with 186°F derating ™ 4.01 to 168°F with 186°F with 18 | Altitude above sea | >1500m; 0.8 % / 100 m derating | | |
| Ambient / storage temperature / relative humidity April 1 58FF Relative humidity Sess, non-condensing Operating ambiance / Ingress Protection Coated steel-ALU ZINC Oct INUT SPECIFICATIONS Nominal voltage (DC) / Voltage range 48 V / 40 -80 V / Voltage ripple Aplustable from 40V to 57V Not 160 A MCB per module APUT PROFICIAL SINC SINCE SPECIFICATIONS Not 160 A MCB per module APUT PROFICE SINCE Not 160 A MCB per module APUT SPECIFICATIONS Voltage range (AC) (Full power rating) Brownout range and behavior Solomore transpe before transfer to DC Adjustable from 80 to 138 Vac Brownout range and behavior Aput Specifications Voltage range (AC) (Full power rating) Brownout range and behavior Aput Specifications Aput Specifications Frequency range (selectable) / synchronization range AC OUTPUT SPECIFICATIONS Adjustable from 80 to 138 Vac AC OUTPUT SPECIFICATIONS Admissible load power factor Frequency accuracy Total harmonic distortion (resistive load) Transpectory frequency accuracy Total harmonic distortion (resistive load) Turn on delay Short duration overload capacity Load impact recovery time Do 4 ms Turn on delay Short duration overload capacity Turn on delay Short duration overload capacity Total farange from the first of the first o | Operating temperature measured at both room and inlet levels | 40 °C to 65°C with 2%/°C derating (1) 104°F to 149°F with 1%/°F derating (1) | | |
| Operating ambiance / Ingress Protection Material (cesing) Coated steel-ALU ZINC Coated steel-ALU ZINC Coated steel-ALU ZINC Coated steel-ALU ZINC DC INPUT SPECIFICATIONS Nominal voltage (DC) / Voltage range 48 V / (40 -80 V) Voltage ripple Adjustable from 40V to 57V DC input voltage boundaries Adjustable from 40V to 57V DC input protections No1 80 A MCB per module AC INPUT SPECIFICATIONS Voltage range (AC) (Full power rating) Brownout range and behavior Act INPUT SPECIFICATIONS Voltage range (AC) (Full power rating) Brownout range and behavior Adjustable from 40V to 52V De input voltage angle (AC) (Full power rating) Brownout range and behavior Adjustable from 80 to 138Vac Power factor Adjustable from 80 to 138Vac Power factor Frequency range (selectable) / synchronization range 50 - 60 Hz / 47 - 53 Hz or 57 - 63 Hz AC OUTPUT SPECIFICATIONS Admissible load power factor Frequency / frequency accuracy Frequency / freq | Ambient / storage temperature / relative humidity | | | |
| Material (casing) Coated steel-ALU ZINC DC INPUT SPECIFICATIONS Nominal voltage (DC) / Voltage range 48 V / (40 -60 V) Voltage ripple | Relative humidity | 95%, non-condensing | | |
| De INPUT SPECIFICATIONS Nominal voltage (DC) / Voltage range 48 V / (40 -80 V) Voltage ripple Adjustable from 40V to 57V Not 160 A MCB per module AC INPUT SPECIFICATIONS Voltage range (AC) (Full power rating) Brownout range and behavior Conformity range before transfer to DC Adjustable from 80 to 1389/ac Power factor Frequency range (selectable) / synchronization range AC OUTPUT SPECIFICATIONS Admissible load power factor Frequency / frequency accuracy AC OUTPUT SPECIFICATIONS Full VA power rating from 0 inductive to 0 capacitive Limited to W power rating from P10,8 to 1 Frequency / frequency accuracy AC OUTPUT SPECIFICATION (American P10,8 to 1 Frequency / frequency accuracy AC OUTPUT SPECIFICATION (American P10,8 to 1 Frequency / frequency accuracy AC OUTPUT SPECIFICATION (American P10,8 to 1 Frequency / frequency accuracy AC OUTPUT SPECIFICATION (American P10,8 to 1 Frequency / frequency accuracy AC OUTPUT SPECIFICATION (American P10,8 to 1 Frequency / frequency accuracy AC OUTPUT SPECIFICATION (American P10,8 to 1 Frequency / frequency accuracy AC OUTPUT SPECIFICATION (American P10,8 to 1 Frequency / frequency accuracy AC OUTPUT SPECIFICATION (American P10,8 to 1 Frequency / frequency accuracy AC OUTPUT SPECIFICATION (American P10,8 to 1 Frequency / frequency accuracy AC OUTPUT SPECIFICATION (American P10,8 to 1 Frequency / frequency accuracy AC OUTPUT SPECIFICATION (American P10,8 to 1 Frequency / frequency accuracy AC OUTPUT SPECIFICATION (American P10,8 to 1 Frequency / frequency accuracy AC OUTPUT SPECIFICATION (American P10,8 to 1 Frequency / frequency accuracy AC OUTPUT SPECIFICATION (American P10,8 to 1 AC OUTPUT SPECIFICATION (American P10,8 to 1 A | Operating ambiance / Ingress Protection | | | |
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| Voltage ripple 2 mV Psopho Input voltage boundaries Adjustable from 40V to 57V DC input protections Not 60 A MCB per module AG INPUT SPECIFICATIONS Voltage range (AC) (Full power rating) 104 - 138 Vac Brownout range and behavior 80 - 104 Vac use DC source contribution if need be (can be disabled) Adjustable from 80 to 138Vac Power factor Prequency range (selectable) / synchronization range AC OUTPUT SPECIFICATIONS Admissible load power factor Frequency / frequency accuracy Admissible load power factor Frequency / frequency accuracy Full VA power rating from 9 inductive to 0 capacitive Limited to W power rating from P1 0,8 to 1 Frequency / frequency accuracy 50 - 60 Hz / 47 - 53 Hz or 57 - 63 Hz AC OUTPUT SPECIFICATIONS Full VA power rating from P1 0,8 to 1 Frequency / frequency accuracy 50 - 60 Hz / 0.03 % Total harmonic distortion (resistive load) 4.1.5% Load impact recovery time 0.4 ms Turn on delay Short duration overload capacity 150% - 15 second Long duration overload capacity 110% permanent Crest factor at nominal power With short circuit management and protection 3.1 Short circuit clear up capacity when AC is not present ENERGY SOURCE CHANGEOVER Total transient voltage duration (max) (as seen from the load) Maintenance Bypass (MBP) SignALING & SUPERVISION Display Alarms output / supervision Remote Monitoring TCP-IP with SNMP V1 | DC INPUT SPECIFICATIONS | | | |
| Input voltage boundaries Activatorian protections Not 60 A MCB per module Act INPUT SPECIFICATIONS Voltage range (AC) (Full power rating) Brownout range and behavior Conformity range before transfer to DC Adjustable from 80 to 138Vac Power factor Frequency range (selectable) / synchronization range AC OUTPUT SPECIFICATIONS ACMINITY SPECIFICATIONS ACMINITY SPECIFICATIONS Frequency range (selectable) / synchronization range AC OUTPUT SPECIFICATIONS ACMINITY SPECIFICATIONS Full VA power rating from 0 inductive to 0 capacitive Limited to W power rating from 9 inductive to 0 capacitive Limited to W power rating from 9 inductive to 0 capacitive Limited to W power rating from 9 inductive to 0 capacitive Limited to W power rating from 9 inductive to 0 capacitive Limited to W power rating from 9 inductive to 0 capacitive Load inpact recovery time Turn on delay So | Nominal voltage (DC) / Voltage range | 48 V / (40 -60 V) | | |
| DC input protections AC INPUT SPECIFICATIONS Voltage range (AC) (Full power rating) Enowmout range and behavior Conformity range before transfer to DC Adjustable from 80 to 138Vac Brownout range and behavior Conformity range before transfer to DC Adjustable from 80 to 138Vac Brownout range (selectable) / synchronization range AC OUTPUT SPECIFICATIONS Admissible load power factor Full VA power rating from 0 inductive to 0 capacitive Limited to W power rating from 10 inductive to 0 capacitive Limited to W power rating from P10,8 to 1 Frequency / frequency accuracy Full VA power rating from P10,8 to 1 Frequency / frequency accuracy Full VA power rating from P10,8 to 1 Frequency / frequency accuracy Full VA power rating from P10,8 to 1 Frequency / frequency accuracy Full VA power rating from P10,8 to 1 Frequency / frequency accuracy Full VA power rating from P10,8 to 1 Frequency / frequency accuracy Full VA power rating from P10,8 to 1 Frequency / frequency accuracy Full VA power rating from P10,8 to 1 Frequency / frequency accuracy Full VA power rating from P10,8 to 1 Full VA power rating | Voltage ripple | <2 mV Psopho | | |
| AC INPUT SPECIFICATIONS Voltage range (AC) (Full power rating) Brownout range and behavior Brownout range and behavior Adjustable from 80 to 138 Vac Power factor Power factor Power factor Power factor Frequency range (selectable) / synchronization range AC OUTPUT SPECIFICATIONS Admissible load power factor Full VA power rating from 0 inductive to 0 capacitive Limited to W power rating from Pf 0,8 to 1 Frequency / frequency accuracy Full VA power rating from 10 inductive to 0 capacitive Limited to W power rating from Pf 0,8 to 1 Frequency / frequency accuracy Full VA power rating from 0 inductive to 0 capacitive Limited to W power rating from Pf 0,8 to 1 Frequency / frequency accuracy Full VA power rating from 0 inductive to 0 capacitive Limited to W power rating from Pf 0,8 to 1 Frequency / frequency accuracy Full VA power rating from 0 inductive to 0 capacitive Limited to W power rating from Pf 0,8 to 1 Frequency / frequency accuracy Full VA power rating from 0 inductive to 0 capacitive Limited to W power rating from 0 inductive to 0 capacitive Limited to W power rating from 0 inductive to 0 capacitive Limited to W power rating from 0 inductive to 0 capacitive Limited to W power rating from 0 inductive to 0 capacitive Limited to W power rating from 0 inductive to 0 capacitive Limited to W power rating from 0 inductive to 0 capacitive Limited to W power rating from 0 inductive to 0 capacitive Limited to W power rating from 0 inductive to 0 capacitive Limited to W power rating from 0 inductive to 0 capacitive Limited to W power rating from 0 inductive to 0 capacitive Limited to W power rating from 0 inductive to 0 capacitive Limited to W power rating from 0 inductive to 0 capacitive Limited to W power rating from 0 inductive to 0 capacitive Limited to W power rating from 0 inductive to 0 capacitive Limited to W power rating from 0 inductive to 0 capacitive Limited to W power rating from 0 inductive to 0 capacitive Limited to W power rating from 0 inductive to 0 capacitive Limited to W power | Input voltage boundaries | Adjustable from 40V to 57V | | |
| Voltage range (AC) (Full power rating) | DC input protections | No1 60 A MCB per module | | |
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| Conformity range before transfer to DC Adjustable from 80 to 138Vac >99% Frequency range (selectable) / synchronization range AC OUTPUT SPECIFICATIONS Admissible load power factor Full VA power rating from 0 inductive to 0 capacitive Limited to W power rating from Pf 0,8 to 1 Frequency / frequency accuracy Total harmonic distortion (resistive load) Load impact recovery time O.4 ms Turn on delay Short duration overload capacity Long duration overload capacity Long duration overload capacity Short circuit clear up capacity on 10 x in for 20 ms Short circuit clear up capacity when AC is not present ENERGY SOURCE CHANGEOVER Total transient voltage duration (max) (as seen from the load) Display Alarms output / supervision No3 Dy Contacts (Maj, Min, User adjustable) Remote Monitoring TCP-IP with SNMP V1 | Voltage range (AC) (Full power rating) | 104 – 138 Vac | | |
| Power factor \$99% Frequency range (selectable) / synchronization range \$0 - 60 Hz / 47 - 53 Hz or 57 - 63 Hz AC OUTPUT SPECIFICATIONS Admissible load power factor Full VA power rating from 0 inductive to 0 capacitive Limited to W power rating from Pf 0.8 to 1 Frequency / frequency accuracy \$0 - 60 Hz / 0.03 % Total harmonic distortion (resistive load) \$1.5% Load impact recovery time 0.4 ms Turn on delay 30 s Short duration overload capacity 150% - 15 second Long duration overload capacity 110% permanent Crest factor at nominal power With short circuit management and protection 3.1 Short circuit clear up capacity when AC is not present 1.5 x I _n for 15 second ENERGY SOURCE CHANGEOVER Total transient voltage duration (max) (as seen from the load) 0 s (and no glitch) Maintenance Bypass (MBP) Yes SIGNALINIG & SUPERVISION LED w/module status and power bargraph + CATENA Display Alarms output / supervision No3 Dry Contacts (Maj, Min, User adjustable) Remote Monitoring TCP-IP with SNMP V1 | Brownout range and behavior | 80 – 104 Vac use DC source contribution if need be (can be disabled) | | |
| Frequency range (selectable) / synchronization range AC OUTPUT SPECIFICATIONS Admissible load power factor Frequency / frequency accuracy Frequency / frequency accuracy Total harmonic distortion (resistive load) Load impact recovery time Turn on delay Short duration overload capacity Crest factor at nominal power With short circuit management and protection Short circuit clear up capacity when AC is not present ENERGY SOURCE CHANGEOVER Total transient voltage duration (max) (as seen from the load) Maintenance Bypass (MBP) SIGNALING & SUPERVISION Display Alarms output / supervision Remote Monitoring Full VA power rating from 0 inductive to 0 capacitive Limited to W power rating from 0 inductive to 0 capacitive Limited to W power rating from 0 inductive to 0 capacitive Limited to W power rating from 0 inductive to 0 capacitive Limited to W power rating from 0 inductive to 0 capacitive Limited to W power rating from 0 inductive to 0 capacitive Limited to W power rating from 0 inductive to 0 capacitive Limited to W power rating from 0 inductive to 0 capacitive Limited to W power rating from 0 inductive to 0 capacitive Limited to W power rating from 0 inductive to 0 capacitive Limited to W power rating from 0 inductive to 0 capacitive Limited to W power rating from P 10,8 to 1 So 60 Hz / 0.03 % So 60 Hz / 0.03 Mg So 6 | Conformity range before transfer to DC | Adjustable from 80 to 138Vac | | |
| AC OUTPUT SPECIFICATIONS Admissible load power factor Frequency / frequency accuracy Frequency / frequency accuracy Total harmonic distortion (resistive load) Load impact recovery time O.4 ms Turn on delay Short duration overload capacity Crest factor at nominal power With short circuit management and protection Short circuit clear up capacity when AC is not present ENERGY SOURCE CHANGEOVER Total transient voltage duration (max) (as seen from the load) Maintenance Bypass (MBP) SIGNALING & SUPERVISION Remote Monitoring Full VA power rating from 0 inductive to 0 capacitive Limited to W power rating from Pf 0,8 to 1 Evaluation of inductive to 0 capacitive Limited to W power rating from Pf 0,8 to 1 Evaluation of inductive to 0 capacitive Limited to W power rating from Pf 0,8 to 1 Evaluation of inductive to 0 capacitive Limited to W power rating from Pf 0,8 to 1 Evaluation of inductive to 0 capacitive Limited to W power rating from Pf 0,8 to 1 Evaluation of inductive to 0 capacitive Limited to W power rating from Pf 0,8 to 1 Evaluation of inductive to 0 capacitive Limited to W power rating from Pf 0,8 to 1 Evaluation of inductive to 0 capacitive Limited to W power rating from Pf 0,8 to 1 Evaluation of inductive to 0 capacitive Limited to W power rating from Pf 0,8 to 1 Evaluation of inductive to 1 capacity Frequency Frequency Full VA power rating from Pf 0,8 to 1 Evaluation of inductive to 1 capacity Full VA power rating from Pf 0,8 to 1 Evaluation of inductive to 1 capacity Full VA power rating from Pf 0,8 to 1 Evaluation of inductive to 1 capacity Full VA power rating from Pf 0,8 to 1 Evaluation of inductive to 1 capacity Full VA power ating from Pf 0,8 to 1 Evaluation of inductive to 1 capacity Full VA power ating from Pf 0,8 to 1 Evaluation of inductive to 1 capacity Full VA power ating from Pf 0,8 to 1 Evaluation of inductive to 2 capacity Full VA power ating from Pf 0,8 to 1 Evaluation of inductive to 2 capacity Full VA power ating from Pf 0,8 to 1 Evaluation of ind | Power factor | >99% | | |
| Admissible load power factor Full VA power rating from 0 inductive to 0 capacitive Limited to W power rating from Pf 0,8 to 1 Frequency / frequency accuracy Total harmonic distortion (resistive load) Load impact recovery time 0.4 ms Turn on delay Short duration overload capacity Long duration overload capacity 150% - 15 second Long duration overload capacity 110% permanent Crest factor at nominal power With short circuit management and protection 3.1 Short circuit clear up capacity (a) Short circuit clear up capacity (a) Short circuit clear up capacity (b) Short circuit clear up capacity (a) ENERGY SOURCE CHANGEOVER Total transient voltage duration (max) (as seen from the load) Maintenance Bypass (MBP) SIGNALING & SUPERVISION Display Alarms output / supervision Remote Monitoring Full VA power rating from 0 inductive to 0 capacitive Limited to W power rating from P10,8 to 1 50 - 60 Hz / 0.03 % | Frequency range (selectable) / synchronization range | 50 – 60 Hz / 47 – 53 Hz or 57 – 63 Hz | | |
| Admissible load power factor Frequency / frequency accuracy Total harmonic distortion (resistive load) Load impact recovery time O.4 ms Turn on delay Short duration overload capacity Long duration overload capacity Long duration overload capacity Total transient voltage duration (max) (as seen from the load) ENERGY SOURCE CHANGEOVER Total transient voltage duration (max) (as seen from the load) Maintenance Bypass (MBP) SIGNALING & SUPERVISION Limited to W power rating from Pf 0,8 to 1 50 - 60 Hz / 0.03 % 50 - 60 Hz / 0.03 % 1.5 % 1.5 % 1.5 % 1.5 % 1.5 % 1.5 % 1.5 % 1.5 % 1.5 % 1.5 % 1.5 % 1.5 % 1.5 % 1.5 x l _n for 15 second 1.5 x l _n for 15 second 2.5 (and no glitch) Yes SIGNALING & SUPERVISION LED w/module status and power bargraph + CATENA Display Alarms output / supervision Remote Monitoring TCP-IP with SNMP V1 | AC OUTPUT SPECIFICATIONS | | | |
| Total harmonic distortion (resistive load) Load impact recovery time O.4 ms 30 s Short duration overload capacity Long duration overload capacity Long duration overload capacity 110% permanent Crest factor at nominal power With short circuit management and protection 3.1 Short circuit clear up capacity (3) Short circuit clear up capacity when AC is not present ENERGY SOURCE CHANGEOVER Total transient voltage duration (max) (as seen from the load) Naintenance Bypass (MBP) SIGNALING & SUPERVISION LED w/module status and power bargraph + CATENA Display Alarms output / supervision Remote Monitoring TCP-IP with SNMP V1 | Admissible load power factor | Limited to W power rating from Pf 0,8 to 1 | | |
| Load impact recovery time O.4 ms Turn on delay Short duration overload capacity Long duration overload capacity Long duration overload capacity 110% permanent Crest factor at nominal power With short circuit management and protection 3.1 Short circuit clear up capacity (3) Short circuit clear up capacity when AC is not present ENERGY SOURCE CHANGEOVER Total transient voltage duration (max) (as seen from the load) Maintenance Bypass (MBP) SIGNALING & SUPERVISION LED w/module status and power bargraph + CATENA Display Alarms output / supervision Remote Monitoring TCP-IP with SNMP V1 | Frequency / frequency accuracy | | | |
| Turn on delay Short duration overload capacity Long duration overload capacity Crest factor at nominal power With short circuit management and protection Short circuit clear up capacity (3) Short circuit clear up capacity when AC is not present ENERGY SOURCE CHANGEOVER Total transient voltage duration (max) (as seen from the load) Maintenance Bypass (MBP) SIGNALING & SUPERVISION Display Alarms output / supervision Remote Monitoring SO S 150% - 15 second 110% permanent 3.1 10 x In for 20 ms 1.5 x I _n for 15 second 9 s (and no glitch) Yes SIGNALING & SUPERVISION LED w/module status and power bargraph + CATENA Display No3 Dry Contacts (Maj, Min, User adjustable) TCP-IP with SNMP V1 | Total harmonic distortion (resistive load) | <1.5% | | |
| Short duration overload capacity Long duration overload capacity Crest factor at nominal power With short circuit management and protection 3.1 Short circuit clear up capacity (3) Short circuit clear up capacity when AC is not present ENERGY SOURCE CHANGEOVER Total transient voltage duration (max) (as seen from the load) Maintenance Bypass (MBP) SIGNALING & SUPERVISION Display Alarms output / supervision Remote Monitoring 150% - 15 second 110% permanent 3.1 10 x In for 20 ms 1.5 x I _n for 15 second ENERGY SOURCE CHANGEOVER 1.5 x I _n for 15 second 1.5 x I _n for 15 second 1.5 x I _n for 15 second ENERGY SOURCE CHANGEOVER 1.5 x I _n for 15 second 1.5 x I _n for 15 second 1.5 x I _n for 15 second ENERGY SOURCE CHANGEOVER 1.5 x I _n for 15 second 1.5 x I _n for 15 second ENERGY SOURCE CHANGEOVER 1.5 x I _n for 15 second 1.5 x I _n for 15 second 1.5 x I _n for 15 second ENERGY SOURCE CHANGEOVER 1.5 x I _n for 15 second 1.5 x I _n for | Load impact recovery time | | | |
| Long duration overload capacity Crest factor at nominal power With short circuit management and protection 3.1 Short circuit clear up capacity (a) Short circuit clear up capacity when AC is not present ENERGY SOURCE CHANGEOVER Total transient voltage duration (max) (as seen from the load) Maintenance Bypass (MBP) SIGNALING & SUPERVISION Display Alarms output / supervision Remote Monitoring 110% permanent 1.10 x In for 20 ms 1.5 x I _n for 15 second 1.5 x I _n for 15 | Turn on delay | | | |
| Crest factor at nominal power With short circuit management and protection 3.1 Short circuit clear up capacity (3) Short circuit clear up capacity when AC is not present 1.5 x I _n for 15 second ENERGY SOURCE CHANGEOVER Total transient voltage duration (max) (as seen from the load) Maintenance Bypass (MBP) SIGNALING & SUPERVISION Display LED w/module status and power bargraph + CATENA Display Alarms output / supervision Remote Monitoring TCP-IP with SNMP V1 | Short duration overload capacity | 150% - 15 second | | |
| Short circuit clear up capacity (8) Short circuit clear up capacity when AC is not present ENERGY SOURCE CHANGEOVER Total transient voltage duration (max) (as seen from the load) Maintenance Bypass (MBP) SIGNALING & SUPERVISION Display Alarms output / supervision Remote Monitoring 10 x In for 20 ms 1.5 x I _n for 15 second 0 s (and no glitch) Yes Yes LED w/module status and power bargraph + CATENA Display No3 Dry Contacts (Maj, Min, User adjustable) TCP-IP with SNMP V1 | Long duration overload capacity | 110% permanent | | |
| Short circuit clear up capacity when AC is not present ENERGY SOURCE CHANGEOVER Total transient voltage duration (max) (as seen from the load) Maintenance Bypass (MBP) SIGNALING & SUPERVISION Display Alarms output / supervision Remote Monitoring 1.5 x I _n for 15 second 1.5 x I _n for 15 second O s (and no glitch) Yes LED w/module status and power bargraph + CATENA Display No3 Dry Contacts (Maj, Min, User adjustable) TCP-IP with SNMP V1 | Crest factor at nominal power With short circuit management and protection | 3.1 | | |
| ENERGY SOURCE CHANGEOVER Total transient voltage duration (max) (as seen from the load) Maintenance Bypass (MBP) SIGNALING & SUPERVISION Display Alarms output / supervision Remote Monitoring O s (and no glitch) Yes LED w/module status and power bargraph + CATENA Display No3 Dry Contacts (Maj, Min, User adjustable) TCP-IP with SNMP V1 | Short circuit clear up capacity (3) | 10 x In for 20 ms | | |
| Total transient voltage duration (max) (as seen from the load) Maintenance Bypass (MBP) SIGNALING & SUPERVISION Display LED w/module status and power bargraph + CATENA Display Alarms output / supervision Remote Monitoring O s (and no glitch) Yes NOS DryContacts (Maj, Min, User adjustable) TCP-IP with SNMP V1 | Short circuit clear up capacity when AC is not present | 1.5 x I _n for 15 second | | |
| Maintenance Bypass (MBP) SIGNALING & SUPERVISION Display Alarms output / supervision Remote Monitoring Yes LED w/module status and power bargraph + CATENA Display No3 Dry Contacts (Maj, Min, User adjustable) TCP-IP with SNMP V1 | ENERGY SOURCE CHANGEOVER | | | |
| SIGNALING & SUPERVISION Display Alarms output / supervision Remote Monitoring LED w/module status and power bargraph + CATENA Display No3 Dry Contacts (Maj, Min, User adjustable) TCP-IP with SNMP V1 | Total transient voltage duration (max) (as seen from the load) | 0 s (and no glitch) | | |
| LED w/module status and power bargraph + CATENA Display Alarms output / supervision Remote Monitoring LED w/module status and power bargraph + CATENA Display No3 Dry Contacts (Maj, Min, User adjustable) TCP-IP with SNMP V1 | Maintenance Bypass (MBP) | Yes | | |
| + CATENA Display Alarms output / supervision No3 Dry Contacts (Maj, Min, User adjustable) TCP-IP with SNMP V1 | SIGNALING & SUPERVISION | | | |
| Remote Monitoring TCP-IP with SNMP V1 | Display | | | |
| | Alarms output / supervision | | | |
| Remote on / off via T2S controller | Remote Monitoring | TCP-IP with SNMP V1 | | |
| | Remote on / off | via T2S controller | | |

TSI BPC - Datasheet v2.1 Specifications can change without notice. New data will be updated on our Web site: www.csl-power.com. The present equipment is protected by several international patents, trademarks and copyrights.

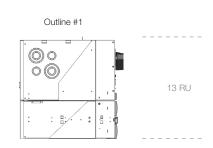
- 1 Operation beyond 40°C (104°F) and derating are not UL certified
- 2 Specific execution can be provided on request
- 3 While the boost function is enabled and AC source present 7 Internal temperature management and switch off

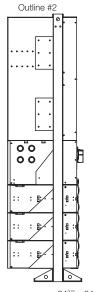




| | BPC-1-25-xx-10 | BPC-2-25-xx-10 | BPC-2-50-xx-20 | BPC-3-37-xx-15 | BPC-3-75-xx-30 | | |
|---|---------------------------------------|---|--|--|--|--|--|
| GENERAL | | | | | | | |
| Nominal voltage (AC) Input & Output | 120 Vac L-N | 120 Vac L-N / 240 Vac L-L (120 Vac / 208 Vac ORQ) | 120 Vac L-N / 240 Vac L-L (120 Vac / 208 Vac ORQ) | 120 Vac L-N / 208 Vac L-L | 120 Vac L-N / 208 Vac L-L | | |
| Nominal Output power (VA) / (W) (when fully populated) | 25 kVA / 20 kW | 25 kVA / 20 kW | 50 kVA / 40 kW | 37.5 kVA / 30 kW | 75 kVA / 60 kW | | |
| CURRENT SPECIFICATIONS | | | | | | | |
| Nominal AC output current. Protected against reverse current | 208 A | 104 A per phase | 208 A per phase | 104 A per phase | 208 A per phase | | |
| Short circuit current after clear up capacity | 229 A | 115 A per phase | 229 A per phase | 115 A per phase | 229 A per phase | | |
| Nominal DC current (at floating voltage and 2000W per module output) | 232 A No2 feeder | 232 A No2 feeder | 232 A No4 feeder | 232 A No3 feeder | 232 A No6 feeder | | |
| Nominal AC input current (4) (at 120Vac and 2000W per module output) | 176 A per phase | 88 A per phase | 176 A per phase | 88 A per phase | 176 A per phase | | |
| SELECTABLE OPTIONS | | | | | | | |
| Piggyback | | | | | | | |
| DC input connection (5) | 2 x 2 500 Kc mil double hole lug | 2 x 2 500 Kc mil double hole lug | n/a | n/a | n/a | | |
| AC input connection / protection (5) | Terminal block / none | | n/a n/a | n/a | n/a | | |
| AC output connection / protection (5) | | Terminal block / none | | n/a | n/a | | |
| Mechanical | Outli | ne #1 | n/a | n/a | n/a | | |
| Bulk protected in&out | | | | | | | |
| DC input connection (5) | Connecting plate single or double lug | | | | | | |
| AC input connection / protection (5) | Supplementary breaker 225 A | Supplementary breaker 125 A 2 pole | Supplementary breaker 250 A 2 pole | Supplementary breaker 125 A 3 pole | 250 A 3 pole | | |
| AC output connection / protection (5) | Branch Circuit Protection 250 A | Branch Circuit Protection 125 A 2 pole | Branch Circuit Protection 250 A 2 pole | Branch Circuit Protection 125 A 3 pole | Branch Circuit Protection 250 A 3 pole | | |
| Mechanical | Outline #2 | | | | | | |
| Bulk protected out (6) | | | | | | | |
| DC input connection (5) | n/a | n/a | Connecting plate single or double lug | n/a | Connecting plate single or double lug | | |
| AC input connection / protection (5) | n/a | n/a | Terminal block / none | n/a | Terminal block / non | | |
| AC output connection / protection (5) | n/a | n/a | No2 Branch Circuit Protection 2 x 250 A 2 pole | n/a | No2 Branch Circuit Protection 2 x 250 A 3 pole or 2 x 125 A 3 pole | | |
| Mechanical | | Outline #2 | | | | | |
| Built-in distribution | | | | | | | |
| DC input connection (5) | n/a | Connecting plate single or double lug | Connecting plate single or double lug | Connecting plate single or double lug | Connecting plate single or double lug | | |
| AC input connection / protection (5) | n/a | Terminal block / none | Terminal block / none | Terminal block / none | Terminal block / non | | |
| AC output connection / protection (5) | n/a | Square-D panel QO 125 A 20-Space | Square-D panel QO 225 A 42-Space | Square-D panel QO 125 A 42-Space | Square-D panel QO 225 A 42-Space | | |
| Mechanical | | Outline #2 | | | | | |

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BPC-1-25-xx-10 BPC-2-25-xx-10 BPC-2-50-xx-20 BPC-3-37-xx-15 BPC-3-75-xx-30

24^{2/3} x 24^{2/3} in.

- 4 Inverter module current consumption only.
 Use output current for circuit sizing while MBP is
- 5 Refer to specific document for NEC compliance for
- external protections and cable sizing 6 Available options with No2 output breaker full or 1/2
- rating and no input breaker 7 Piggyback version in 50kVA and 75kVa to be phased out

n/a Option not available