

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR HCAI SPECIAL SEISMIC OFFICE USE ONLY CERTIFICATION PREAPPROVAL (OSP) APPLICATION #: OSP-0809 HCAI Special Seismic Certification Preapproval (OSP) Type: X New Renewal Manufacturer Information Manufacture Information	
Type: X New Renewal	
Manufacturer Information	
Manufacturer: PowerTemp Systems	
Manufacturer's Technical Representative: Wade Duplessis	
Mailing Address: 1646 Rankin Rd, Suite 300, Houston, TX 770734907	
Telephone: (281) 286-3303 Email: wadesr@powertemp.com	
FORCODECO	
Product Information	
Product Name: Panelboards	
Product Type: Power Distribution Units	
Product Model Number: Quick Connect Tap Boxes	
General Description: Wall mounted and base mounted generator quick connect tap boxes. A simple and safe means of connecting either a portable generator or a load bank to an existing generator, ATS, or utility service.	
Mounting Description: Rigid, Floor/Wall Mounted TE: 05/10/2024	
Tested Seismic Enhancements: None	
Applicant Information	
Applicant Company Name: Dynamic Certification Laboratories	
Contact Person: Kelly Laplace	
Mailing Address: 1315 Greg Street Suit 109, Sparks, NV 89431	
Telephone: (775) 358-5085 Email: kelly@shaketest.com	





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OSP-0809



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California Licensed Structural Eng	ineer Responsible	for the Enginee	ring and Test Repor	t(s)
Company Name: THE VMC GROUP				
Name: Kenneth Tarlow		California License	e Number: S2851	
Mailing Address: 980 9th Street, 16th Flo	por, Sacramento, CA 9	5814		
Telephone: (832) 627-2214	Email: ken	.tarlow@thevmcgr	oup.com	
Certification Method				
GR-63-Core X ICC-ES	AC156	IEEE 344	IEEE 693	NEBS 3
Other (Please Specify):				
	ORCO	DFC		
Testing Laboratory		- ().		
Company Name: DYNAMIC CERTIFICA	TION LABORATORY	(DCL)	4	
Contact Person: Kelly Laplace			2	
Mailing Address: 1315 Greg St., Ste 109	, Sparks NV 89431	0809	m	
Telephone: (775) 358-5085	Email: Kell	y@shaketest.com		
C	DATE: 05/	10/2024	N	
			OV CONTRACTOR	
			~~/	
	DATE: 05/	COV		
	A BUIL	DING		



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Seismic Parameters

Design Basis of Equipment or Components	$(F_p/W_p) = 1.50 (Sds=2.00, z/h=1);$	1.13 (Sds=	=2.50, z/h=0)					
SDS (Design spectral response accel	eration at short period, g) = $2.0g$ at z/	h=1.0 and	2.5g at z/h=0					
ap (Amplification factor) =	2.5							
Rp (Response modification factor) =	6.0							
Ω_0 (System overstrength factor) = 2.0								
lp (Importance factor) =	1.5							
z/h (Height ratio factor) =								
Natural frequencies (Hz) =	See Attachment							
Overall dimensions and weight =	See Attachment							
HCAI Approval (For Office Use Only) -	Approval Expires on 05/10/2030							
Date: 5/10/2024	OSP-0809	R						
Name: Mohammad Karim		Title:	Supervisor, Health Facilities					
Special Seismic Certification Valid Up to: S	$DS(g) = \frac{2.0}{2.0}$	z/h =	1					
Condition of Approval (if applicable):	DATE: 05/10/2024							
	PRVIA BUILDING COD	202						



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OSP-0809

Special Seismic Certification Table 1 - Certified Components: Rigid Wall Mounted Units



DCL Project Numbers: 11170-2201 and 21762-2301 Manufacturer: PowerTemp Product Type: Quick Connect Tap Box Certified Seismic Level: Sds-2 0g at z/b=1 0 and Sds-2 5 at z/b=0

Model Family	Model	Enclosure Material		Dimensions [in]	Weight	Unit		
Woder Failing	Woder		Length	Width	Height	[lbs]	Unit	
Basic Grade	QC-PPW-xxx		10	24	30	59	Extrapolated	
	QC-PPW-003	Aluminun	11	26	43	101	UUT-03	
	QC-PPW-xxx		16	26	45	175	Interpolated	
	QC-PPW-xxx		10	24	30	107	Interpolated	
	QC-PPW-004	Stainless Steel	11	26	43	186	UUT-04	
	QC-PPW-xxx		16	26	45	292	Interpolated	
	QC-SSW-xxx		20	24	36	127	Interpolated	
	QC-SSW-001	Aluminun	28	31	51	270	UUT-01	
Spec Grade	QC-SSW-005		27	34	54	370	UUT-05	
Spec Glade	QC-SSW-xxx		20	24	36	238	Interpolated	
	QC-SSW-xxx	Stainless Steel		30	46	446	Interpolated	
	QC-SSW-006			34	54	570	UUT-06	

Notes

1. Spec grade has buss kits, basic does not

BY: Mohammad Karim DATE: 05/10/2024

Special Seismic Certification Table 2 - Certified Components: Rigid Base Mounted Units



DCL Project Numbers: 11170-2201 and 21762-2301 Manufacturer: PowerTemp Product Type: Quick Connect Tap Box Certified Seismic Level: Sds=2.0g at z/h=1.0 and Sds=2.5 at z/h=0

Madel Comilia	Model	Enclosure Material	I.	Dimensions [in]]	Weight	Unit
Model Family			Length	Width	Height	[lb]	Unit
1-High, 31" Wide ¹	QC-PM-xxx	Aluminum	31	44	39	282	Extrapolate
I-High, 31 Wide	QC-PM-xxx	Stainless Steel	31	44	39	458	Extrapolate
2-High, 31" Wide ¹	QC-PM-xxx	Aluminum	31	44	65	487	Extrapolate
2-Hign, 31 Wide	QC-PM-xxx	Stainless Steel	31	44	65	791	Extrapolate
3-High, 31" Wide –	QC-PM-xxx	Aluminum	31	44	88	737	Extrapolate
	QC-PM-007	Stainless Steel	32	48	90	1120	UUT-07
	QC-PM-xxx	Aluminum	31	44	39	502	Extrapolate
1-High, 48" Wide ¹	QC-PM-xxx	Stainless Steel	31	44	39	682	Extrapolate
	QC-PM-xxx	Aluminum D	31	44	65	1,048	Extrapolate
2-High, 48" Wide ¹	QC-PM-xxx	Stainless Steel	31	44	65	1,425	Extrapolate
3-High, 48" Wide	QC-PM-008	Aluminum	47	48	90	1440	UUT-08
5-mgn, 40 Wide	QC-PM-009	Stainless Steel	49	48	90	1850	UUT-09

1. 1-high and 2-high represent depopulated versions of 3-high

OSP-0809 BY: Mohammad Karim DATE: 05/10/2024

Special Seismic Certification Table 3 - Certified Options

Manufacturer: PowerTemp Product Type: Quick Connect Tap Box





Sample Part Number: A-B-XXX								
ariable	Allowable Value	Allowable Value Definition	Unit					
А	QC	Branding, Quick Connect Tap Box	UUT-01 through UUT-09					
	PPW	Basic Grade Wall Mount	UUT-03, UUT-04					
в	SSW	Spec Grade Wall Mount	UUT-01, UUT-05, UUT-06					
	PM	Pad Mount	UUT-07, UUT-08, UUT-09					
XXX	000-999	Internally Applied Serial Number	UUT-01 through UUT-09					
	CALIFOR	ER CODE COMBUNE OSP-0809 DATE: 05/10/2024						

Special Seismic Certification Table 4 - Certified Subcomponents- Rigid Wall Mounted Units

DCL Project Numbers: 11170-2201 and 21762-2301 Product Type: Quick Connect Tap Boxes



Component	Manufacturer	Part Number	Notes	Material	Weight [lb]	Unit
		PTSENCQCB302410	Small Basic Wall Mount		35	Extrapolate
		PTSQCB422610	Medium Basic Wall Mount		72	UUT-03
		PTSQCS362420	Small Spec Grade Wall Mount	Aluminum	81	Interpolate
		PTSQCB422616	Large Basic Wall Mount	Aluminum	85	Interpolate
		PTSQCS463025	Large Spec Grade Wall Mount		128	UUT-01
		PTSQCS543425	Extra Large Spec Grade Wall Mount		150	UUT-05
		PTSENCQCB302410304	Small Basic Wall Mount		83	Interpolate
		PTSENCQCB302410316	Small Basic Wall Mount		83	Interpolate
Enclosures		PTSQCB422610-304	Medium Basic Wall Mount		170	Interpolate
[NEMA 3RX]	PowerTemp	PTSQCB422610-316	Medium Basic Wall Mount		171	UUT-04
	-	PTSQCS362420-304	Small Spec Grade Wall Mount		191	Interpolate
		PTSQCS362420-316	Small Spec Grade Wall Mount		192	Interpolat
		PTSQCB422616304	Large Basic Wall Mount	Stainless Steel	200	Interpolat
	-	PTSQCB422616316	Large Basic Wall Mount	-	200	Interpolat
	-	PTSQCS463025-304	Large Spec Grade Wall Mount		302	Interpolate
	-	PTSQCS463025-316	Large Spec Grade Wall Mount		302	Interpolate
	-			•		
	-	PTSQCS543425304	Extra Large Spec Grade Wall Mount		354	Interpolate
		PTSQCS543425316	Extra Large Spec Grade Wall Mount		357	UUT-06
	-	SOCO 41503012	100A 3P MTS		6	UUT-03
	-	SOCO 41503022	200A 3P MTS		6	Interpolate
	-	SOCO 41503026	260A 3P MTS	Plastic, Copper	11	Interpolat
	_	SOCO 41503042	400A 3P MTS		11	Interpolat
	_	SOCO 41503060	600A 3P MTS		36	UUT-05
		SOCO 97233010	J3P-U (100A 3P ATS		8	UUT-04
ansfer Switch ¹	Socomec	SOCO 97233020	200A 3P ATS		8	Interpolat
	socomee	SOCO 97233026	260A 3P ATS	Plastic, Copper	9	Interpolate
		SOCO 97233040	400A 3P ATS		9	Interpolat
		SOCO 97233060	600A 3P ATS		43	UUT-01
		SOCO 96A13010	100A 3P Fast Transfer ATS		28	UUT-06
		SOCO 96A13020	200A 3P Fast Transfer ATS	Plastic Connor	28	Interpolat
		SOCO 96A13026	260A 3P Fast Transfer ATS	Plastic, Copper	34	Interpolat
		SOCO 96A13040	400A 3P Fast Transfer ATS		34	UUT-06
		CBABBXT2NU3125	XT2 Frame 3P 125A		3	UUT-03
		CBABBXT3NU3225	XT3 Frame 3P 225A		3	Interpolate
	ABB	CBABBXT4NU3250	XT4 Frame 3P 250A	Plastic, Copper	6	Interpolate
	-	CBABBXT5NU3600	XT5 Frame 3P 600A		7	Interpolate
		CBABBXT6NU3800	XT6 Frame 3P 800A		27	UUT-05
ircuit Breaker ³		BDL36125	B Frame 3P 125A		2	UUT-04
	Square D	HDL36150	H Frame 3P 150A		5	Interpolat
	(Alternately	JDL36250	J Frame 3P 250A	Plastic, Copper	5	Interpolat
	Branded	LDL36600	L Frame 3P 600A	riustic, copper	14	Interpolate
	Schneider)		M Frame 3P 800A		29	UUT-06
		MGL36800				
	-	PTSBBQCS-400AKIT2	Spec-Grade Wall Mount Buss Kit	-	27	Extrapolat
Buss Kit	Farmers Copper	PTSBBQCS-400AKIT5W-LRG	Spec-Grade Wall Mount Buss Kit	Plastic, Copper	35	Extrapolat
	-	PTSBBQCS-800AKIT5W	Spec-Grade Wall Mount Buss Kit		40	UUT-01
		PTSBBQCSXL-1200AKIT5W	Spec-Grade Wall Mount Buss Kit		44	UUT-05, UU
	_	QCP-20G	20A GFCI Receptacle w/Breaker		<1	UUT-03
	_	QCP-30T	30A Twist-Lock Receptacle w/Breaker		<1	UUT-04
		QCP-50T	50A CS6369 Receptacle w/Breaker		<1	UUT-05
		QCP-BAA	Bottom Access Annunciator	Plastic, Copper	<1	UUT-06
		QCP-LDR	7535 Load Dump Receptacle	ļ	<1	UUT-05
ubassemblies	PowerTemp	QCP-LEDH2	LED Pilot Light]	<1	UUT-04
[Kits]	rowerreinp	QCP-PRMK	Phase Rotation Monitor		<1	UUT-01
	[Γ	QCP-HTR100W	100W Heater]	1	UUT-06
	Γ	QCP-SDS	Signal Destination Switch]	<1	UUT-06
		QCP-SPD	Surge Protection Device	Carbon Steel, Plastic	<1	UUT-03
		QCP-STP	SCADA Terminal Port	1	<1	UUT-05
	I F	QCP-VMM	Voltmeter	1	<1	UUT-04

1. Manual transfer switch= MTS. Automatic transfer switch= ATS.

2. 316 stainless steel is more resistant to corrosion, and is otherwise identical to 304 stainless steel

3. All circuit breakers in wall mounted units are back mounted

Special Seismic Certification Table 5 - Certified Subcomponents - Rigid Base Mounted Units

DCL Project Numbers: 11170-2201 and 21762-2301 Product Type: Quick Connect Tap Boxes



Product Type: Qu	iick Connect Tap E	Boxes				
Component	Manufacturer	Part Number	Notes	Material	Weight [lb]	Unit
		PTSENC3150R	Narrow Pad Mount Roof		25	Extrapolated
		PTSENC4850R	Wide Pad Mount Roof		39	UUT-08
		PTSENC314418M-QCDP	Narrow Pad Mount Mid-Section		59	Interpolated
		PTSENC484418M-QCDP	Wide Pad Mount Mid-Section		78	Interpolated
		PTSENC314425	Narrow Pad Mount Short Top Section		91	Interpolated
		PTSENC484425.5-L	Wide Pad Mount Short Top Section Left Hinge ¹		100	UUT-08
		PTSENC484425.5-R	Wide Pad Mount Short Top Section Right Hinge	Aluminum	100	Interpolated
		PTSENC314433T-QCDP	Narrow Pad Mount Top Section		100	Interpolated
		PTSENC484433T-QCDP	Wide Pad Mount Tall Top Section		120	Interpolated
		PTSENC314437B-QCDP	Narrow Pad Mount Bottom Section		131	Interpolated
		PTSENC484437B-QCDP	Wide Pad Mount Bottom Section		160	Interpolated
		PTSENC484437B-QCDPRT	Wide Pad Mount Bottom Section Right Hinge		160	Interpolated
	ŀ	PTSENC484437B-2D	Wide Double Door Pad Mount Bottom Section		185	UUT-08
	ŀ	PTSENC3150R-316	Narrow Pad Mount Roof		59	UUT-07
		PTSENC3150R-304	Narrow Pad Mount Roof		59	Interpolated
Enclosures	PowerTemp	PTSENC4850R-304	Wide Pad Mount Roof		71	Interpolated
[NEMA 3R]		PTSENC4850R-316	Wide Pad Mount Roof		72	UUT-09
		PTSENC314418M-304	Narrow Pad Mount Mid-Section		139	Interpolated
		PTSENC314418M-316	Narrow Pad Mount Mid-Section		140	Interpolated
		PTSENC484418M-304	Wide Pad Mount Mid-Section		185	Interpolated
		PTSENC484418M-316	Wide Pad Mount Mid-Section		186	Interpolated
		PTSENC314425-316	Narrow Pad Mount Short Top Section ¹	1	215	UUT-07
		PTSENC314433T-304	Narrow Pad Mount Top Section	Stainless Steel	236	Interpolated
		PTSENC484425.5-LT316	Wide Pad Mount Short Top Section ¹		238	UUT-09
		PTSENC314433T-316	Narrow Pad Mount Top Section	חי	238	Interpolated
		PTSENC484433T-304	Wide Pad Mount Tall Top Section		282	Interpolated
	-	PTSENC484433T-316	Wide Pad Mount Tall Top Section		284	Interpolated
	-	PTSENC314437B-304	Narrow Pad Mount Bottom Section		309	Interpolated
		PTSENC314437B-316	Narrow Pad Mount Bottom Section		311	UUT-07
		PTSENC484437B-304	Wide Pad Mount Bottom Section		377	Interpolated
		PTSENC484437B-316	Wide Pad Mount Bottom Section	\sim	379	UUT-09
		SOCO 41503080	800A 3P MTS	\sim	47	UUT-07
		SOCO 41503120	1200A 3P MTS	5	57	Interpolated
		SOCO 41AC3160	1600A 3P MTS	1	39	Interpolated
		SOCO 41AC3200	2000A 3P MTS		54	Interpolated
		SOCO 41AC3250	2500A 3P MTS		54	Interpolated
		SOCO 41AC3320	3200A 3P MTS		69	UUT-08
Transfer Switch ²	Socomec	SOCO 97233080	800A 3P ATS	Plastic, Copper	48	UUT-07
		SOCO 97233120	1200A 3P ATS		48	Interpolated
		SOCO 95233160	1600A 3P ATS		48	Interpolated
		SOCO 95233200	2000A 3P ATS		66	Interpolated
		SOCO 95233250	2500A 3P ATS		69	Interpolated
		SOCO 95233250	3200A 3P ATS		78	UUT-09
		3000 33233320	JZUUA JE AIJ		70	001-09

Note:

1. Two short top sections were tested to represent the heaviest configuration of stacked enclosures.

2. Manual transfer switch= MTS. Automatic transfer switch= ATS.

Special Seismic Certification Table 6 - Certified Subcomponents - Rigid Base Mounted Units (Continued)



DCL Project Numbers: 11170-2201 and 21762-2301 Product Type: Quick Connect Tap Boxes

Component	Manufacturer	Part Number	Notes	Material	Weight [lb]	Unit
		CBABBXT1NU3125	XT1 Frame 3P 125A (Back Mount)		2	UUT-07
		CBABBXT2NU3100	XT2 Frame 3P 100A (Back Mount)		3	Interpolated
		CBABBXT3NU3225	XT3 Frame 3P 225A (Back Mount)		4	Interpolated
		CBABBXT4NU3250	XT4 Frame 3P 250A (Back Mount)	Plastic, Copper	6	Interpolated
		CBABBXT5NU3600	XT5 Frame 3P 600A (Back Mount)		8	Interpolated
	ABB	CBABBXT6NU3800	XT6 Frame 3P 800A (Back Mount)		21	Interpolated
		CBABBXT7SU31200	XT7 Frame 3P 1200A (Back Mount)		30	UUT-09
		CBABBE1.2312LSIGERMSPDLK	EMax 1.2 Frame 3P 1200A (Bottom Mount)		31	UUT-09
	uit Breaker	CBABBE2.2320LSIGERMSPDLK	EMax 2.2 Frame 3P 2000A (Bottom Mount)	Plastic, Copper	115	Interpolated
Circuit Breaker		CBABBE4.2332LSIGERMSPDLK	EMax 4.2 Frame 3P 3200A (Bottom Mount)	Plastic, Copper	123	Interpolated
		CBABBE6.2340LSIGERMSPDLK	EMax 6.2 Frame 3P 4000A (Bottom Mount)		240	UUT-09
		BDL36125	B Frame 3P 125A (Back Mount)		14	UUT-07
		HDL36150	H Frame 3P 150A (Back Mount)		5	Interpolated
		JDL36250	J Frame 3P 250A (Back Mount)	Plastic, Copper	5	Interpolated
	Square D (Alternately	LDL36600	L Frame 3P 600A (Back Mount)	Plastic, Copper	14	Interpolated
	Branded	MGL36800	M Frame 3P 800A (Back Mount)		29	Interpolated
	Schneider)	PGL36120	P Frame 3P 1200A (Back Mount)		32	UUT-08
	oonnerder,	CBSQDMTZ116LSIGERMSPDLK	MTZ1 Frame 3P 1600A (Bottom Mount)		31	UUT-08
		CBSQDMTZ230LSIGERMSPDLK	MTZ2 Frame 3P 3000A (Bottom Mount)	Plastic, Copper	110	Interpolated
		CBSQDMTZ340LSIGERMSPDLK	MTZ3 Frame 3P 4000A (Bottom Mount)		265	UUT-08
		QCP-20G	20A GFCI Receptacle w/Breaker		<1	UUT-07
		QCP-30T	30A Twist-Lock Receptacle w/Breaker	7.	<1	UUT-08
		QCP-50T	50A CS6369 Receptacle w/Breaker	5	<1	UUT-09
		QCP-BAA	Bottom Access Annunciator		<1	UUT-07
		QCP-LDR	7535 Load Dump Receptacle	Plastic, Copper	<1	UUT-08
		QCP-LEDH2	LED Pilot Light		<1	UUT-09
Subassemblies	PowerTemp		Phase Rotation Monitor		<1	UUT-07
[Kits]	rowerreinp	QCP-RELT	Reduced Energy Let Through		<1	UUT-09
		QCP-PS60WH2	Power Supply		3	UUT-09
		QCP-SDS	Signal Destination Switch		<1	UUT-08
		QCP-SPD	Surge Protection Device		<1	UUT-07
		QCP-STP	SCADA Terminal Port	Carbon Steel, Plastic	<1	UUT-08
		QCP-VMM	Voltmeter	2	<1	UUT-09
		QCP-HTR500W	500W Heater		1	UUT-07



Special Seismic Certification Table 7 - Tested Units



Manufacturer: PowerTemp

Product Type: Quick Connect Tap Boxes Certified Seismic Level: Sds=2.0g at z/h=1.0 and Sds=2.5 at z/h=0

Model Number	Description	Mounting Dimens		imensions [in.]		Weight	DCL Report Number	Unit	
WoderNumber	Description	Configuration	Length	Width	Height	[Ib]	DCL Report Number	Unit	
QC-PPW-003	Medium Size Basic Grade, Aluminum	Wall	11	26	43	101	21762-2301	UUT-03	
QC-PPW-004	Medium Size Basic Grade, Stainless Steel	Wall	11	26	43	186	21762-2301	UUT-04	
QC-SSW-001	Large Spec Grade, Aluminum	Wall	28	31	51	270	11170-2201	UUT-01	
QC-SSW-005	Extra-Large Spec Grade, Aluminum	Wall	27	34	54	370	21762-2301	UUT-05	
QC-SSW-006	Extra-Large Spec Grade, Stainless Steel	Wall	27	34	54	570	21762-2301	UUT-06	
QC-PM-007	3-High, 31" Narrow, Stainless Steel	Base	32	48	90	1120	21762-2301	UUT-07	
QC-PM-008	3-High, 48" Wide, Aluminum	Base	47	48	90	1440	21762-2301	UUT-08	
QC-PM-009	QC-PM-009 3-High, 48" Wide, Stainless Steel		DL ₄₉ E	48	90	1850	21762-2301	UUT-09	





UUT-03 - DCL Test Report 21762-2301

Manufacturer: PowerTemp

Product Line: Quick Connect Tap Box

Model Number: QC-PPW-003

Product Construction Summary: Aluminum

Options / Component Summary: 100A 3-Pole transfer switch, 125A circuit breaker, aluminum enclosur, and subassemblies.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

	UUT Properties										
Tested unit		Dimensions (in)			Woight (lb)	Lowes	Lowest Natural Frequency (Hz)				
Testeu unit	ested unit Operating Weight (lb)		Front-Back	Side-Side	Vertical						
UUT-03	11	26	43	1	101		N/A	N/A			
			Seis	smic Test Parame	ters						
Building Code	Test Criteria	Sds (g)	z/h	lp	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)			
CBC 2022	ICC-ES AC156	2.00	1.0	CUDE	3.20	2.40	N/A	N/A			
CBC 2022	ICC-ES ACISO	2.50	0.0	1.5	N/A	N/A	1.67	0.67			
Unit Mounting De	escription:										

Unit Mounting Description:

The unit was wall mounted to the DCL wall fixture using four 3/8" Grade 5 bolts, four channel nuts, four flat washers, and four 1 ¾" by 1 ¾" by ½" plate washers. The 3/8" bolts were spaced 20" apart in the horizontal direction measured on-center and 42.3" apart in the vertical direction measured on-center.





UUT-04 - DCL Test Report 21762-2301

Manufacturer: PowerTemp

Product Line: Quick Connect Tap Box

Model Number: QC-PPW-004

Product Construction Summary: Stainless Steel

Options / Component Summary: 100A 3-Pole transfer switch, 125A circuit breaker, stainless steel enclosure, and subassemblies.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

				UUT Properties						
Tested unit		Dimensions (in)					Lowest Natural Frequency (Hz)			
Tested unit	Tested unit Operating Weight (lb)		Front-Back	Side-Side	Vertical					
UUT-04	11	26	43	186		N/A	N/A	N/A		
	Seismic Test Parameters									
Building Code	Test Criteria	Sds (g)	z/h	lp	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)		
CBC 2022	ICC-ES AC156	2.00	1.0	CUDE	3.20	2.40	N/A	N/A		
CBC 2022	ICC-ES ACISO	2.50	0.0	1.5	N/A	N/A	1.67	0.67		
Unit Mounting De	nit Mounting Description:									

Unit Mounting Description:

The unit was wall mounted to the DCL wall fixture using four 3/8" Grade 5 bolts, four channel nuts, four flat washers, and four 1 ¼" by 1 ¼" by ½" plate washers. The 3/8" bolts were spaced 20" apart in the horizontal direction measured on-center and 42.3" apart in the vertical direction measured on-center.





UUT-01 - DCL Test Report 11170-2201

Manufacturer: PowerTemp

Product Line: Quick Connect Tap Box

Model Number: QC-SSW-001

Product Construction Summary: Aluminum

Options / Component Summary: 600A 3-Pole transfer switch, buss kit, aluminum enclosure, and subassemblies.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

				UUT Properties							
Tested unit		Dimensions (in)		Operating Weight (lb)		Lowest Natural Frequency (Hz)					
	Length	Width	Height	Operating	weight (ib)	Front-Back	Side-Side	Vertical			
UUT-01	28	31	51	270		N/A	N/A	N/A			
	Seismic Test Parameters										
Building Code	Test Criteria	Sds (g)	z/h	lp	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)			
CBC 2022	ICC-ES AC156	2.00	1.0 R		3.20	2.40	N/A	N/A			
CBC 2022	ICC-L3 ACI30	2.50	0.0		N/A	N/A	1.67	0.67			
Unit Mounting D	Jnit Mounting Description:										

Unit Mounting Description:

The unit was wall-mounted to the DCL steel wall fixture with (4) 3/8" Grade 5 bolts, washers, and nuts. The bolts were spaced 48" on-center in the vertical direction and 24" on-center in the horizontal direction.



Overall view of UUT-01.



Interior view of UUT-01.



UUT-05 - DCL Test Report 21762-2301

Manufacturer: PowerTemp

Product Line: Quick Connect Tap Box

Model Number: QC-PPW-005

Product Construction Summary: Aluminum

Options / Component Summary: 600A 3-Pole transfer switch, 800A circuit breaker, aluminum enclosure, buss kit, and subassemblies.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

				UUT Properties						
Tested unit		Dimensions (in)		Operating Weight (lb)		Lowest Natural Frequency (Hz)				
	Length	Width	Height	Operating	weight (ib)	Front-Back	Side-Side	Vertical		
UUT-05	27	34	54	370		N/A	N/A	N/A		
	Seismic Test Parameters									
Building Code	Test Criteria	Sds (g)	z/h	lp	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)		
CBC 2022	ICC-ES AC156	2.00	1.0	CUDE	3.20	2.40	N/A	N/A		
CBC 2022 ICC-ES AC156		2.50	0.0	1.5	N/A	N/A	1.67	0.67		
Unit Mounting Description:										

Unit Mounting Description:

The unit was wall mounted to the DCL wall fixture using four 1/2" Grade 5 bolts, four channel nuts, four flat washers, and four 3" by 3" by ½" plate washers. The 1/2" bolts were spaced 24" apart in the horizontal direction measured on-center and 54.5" apart in the vertical direction measured on-center.



Overall view of UUT-05.



UUT-06 - DCL Test Report 21762-2301

Manufacturer: PowerTemp

Product Line: Quick Connect Tap Box

Model Number: QC-PPW-006

Product Construction Summary: Stainless Steel

Options / Component Summary: 100A and 400A 3-Pole transfer switchs, 800A circuit breaker, buss kit, stainless steel enclosure, and subassemblies.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

UUT Properties										
Tested unit	Dimensions (in)			Operating Mainht (lh)		Lowest Natural Frequency (Hz)				
Tested unit	Length	Width	Height	Operating Weight (lb)		Front-Back	Side-Side	Vertical		
UUT-06	27	34	54	570		N/A	N/A	N/A		
			Seis	mic Test Paramete	ers					
Building Code	Test Criteria	Sds (g)	z/h		Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)		
CBC 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	N/A	N/A		
CBC 2022		2.50	0.0		N/A	N/A	1.67	0.67		

Unit Mounting Description:

The unit was wall mounted to the DCL wall fixture using four 1/2" Grade 5 bolts, four channel nuts, four flat washers, and four 3" by 3" by 4" plate washers. The 1/2" bolts were spaced 24" apart in the horizontal direction measured on-center and 54.5" apart in the Vertical direction measured on-center.





Interior view of UUT-06.



UUT-07 - DCL Test Report 21762-2301

Manufacturer: PowerTemp

Product Line: Quick Connect Tap Box

Model Number: QC-PM-007

Product Construction Summary: Stainless Steel

Options / Component Summary: Stainless steel enclosure, 800A transfer switches, 125A circuit breakers, and subassemblies

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

				UUT Properties							
Tested unit	Dimensions (in)			Operating Weight (lb)		Lowest Natural Frequency (Hz)					
	Length	Width	Height	Operating Weight (lb)		Front-Back	Side-Side	Vertical			
UUT-07	32	48	90	1,120		12.0	15.0	>33.3			
	Seismic Test Parameters										
Building Code	Test Criteria	Sds (g)	z/h	Ip.	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)			
CBC 2022	ICC-ES AC156	2.00	1.0 R		3.20	2.40	N/A	N/A			
CBC 2022	ICC-ES ACISO	2.50	0.0		N/A	N/A	1.67	0.67			
Unit Mounting De	Jnit Mounting Description:										

Unit Mounting Description:

The unit was base mounted to the DCL interface plate using (12) 3/8" Grade 5 bolts, flat washers, and 1 ¼" by 1 5/8" by ¼" carbon steel plate washers. The (4) bolts were spaced 10", 20" and 10" apart in the side to side direction measured on-center. The (2) bolts on one side measured 3.8" from the bolts that were in the x-direction measured on-center and were spaced 20" apart from each other in the front to back direction measured on-center. The (2) bolts on the other side measured 9.6" from the bolts that were in the side to side direction measured on-center and were spaced 10" apart from each other in the front to back direction measured on-center.



Overall view of UUT-07.



UUT-07 top section interior view.

UUT-07 middle section interior

UUT-07 bottom section interior view.





UUT-08 - DCL Test Report 21762-2301

Manufacturer: PowerTemp

Product Line: Quick Connect Tap Box

Model Number: QC-PM-008

Product Construction Summary: Aluminum

Options / Component Summary: Aluminum enclosure 3200A transfer switches, 1200A, 1600A, and 4000A circuit breakers, and subassemblies.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

UUT Properties										
Tested unit	Dimensions (in)			Operating Mainht (Ik)		Lowest Natural Frequency (Hz)				
	Length	Width	Height	Operating Weight (Ib)		Front-Back	Side-Side	Vertical		
UUT-08	47	48	90	1,440		10.0	8.0	>33.3		
			Seis	smic Test Paramet	ers					
Building Code	Test Criteria	Sds (g)	z/h		Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)		
CBC 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	N/A	N/A		
		2.50	0.0		N/A	N/A	1.67	0.67		

Unit Mounting Description:

The unit was base mounted to the DCL interface plate using (12) 3/8" Grade 5 bolts, flat washers, and 1 ¼" by 15/8" by ¼" carbon steel plate washers. The (4) bolts were spaced 10", 20" and 10" apart in the side to side direction measured on-center. The (2) bolts on either side measured 18" from the bolts that were in the front to back direction measured on-center from each other in the side to side measured on-center.





UUT-09 - DCL Test Report 21762-2301

Manufacturer: PowerTemp

Product Line: Quick Connect Tap Box

Model Number: QC-PM-009

Product Construction Summary: Stainless steel

Options / Component Summary: Stainless steel enclosure, 3200A transfer switches, 1200A and 4000A circuit breakers, and subassemblies.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

				UUT Properties						
Tested unit	Dimensions (in)			Operating Weight (lb)		Lowest Natural Frequency (Hz)				
Tested unit	Length	Width	Height	Operating	weight (ib)	Front-Back	Side-Side	Vertical		
UUT-09	49	48	90	18	50	10.5	12.5	>33.3		
Seismic Test Parameters										
Building Code	Test Criteria Sds (g) z/h Aflx-H (g) Arig-H (g) Aflx-V (g) Arig							Arig-V (g)		
CBC 2022	ICC-ES AC156	2.00	1.0	CUDE	3.20	2.40	N/A	N/A		
CBC 2022	ICC-ES ACISO	2.50	0.0		N/A	N/A	1.67	0.67		
Unit Mounting De	escription:									

Unit Mounting Description:

The unit was base mounted to the DCL interface plate using (12) 3/8" Grade 5 bolts, flat washers, and 1 %" by 1 5/8" by %" carbon steel plate washers. The (4) bolts were spaced 14" apart in the side to side measured on-center. The (2) bolts on one side measured 17" and 18.3" from the bolts that were in the xdirection measured on-center and were spaced 11" apart from each other in the front to back measured on-center. The (2) bolts on the other side measured 18" and 18.3" from the bolts that were in the side to side measured on-center and were spaced 10" apart from each other in the front to back measured oncenter.



Overall view of UUT-09.



UUT-09 interior view.