

APPLICATION FOR OSHPD SPECIAL SEISMIC	OFFICE US	
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #: 0	SP – 0119-10
OSHPD Special Seismic Certification Preapproval (OSP)		
Type: 🗌 New 🛛 Renewal		
Manufacturer Information		
Manufacturer: TOSHIBA INTERNATIONAL CORPORATION		
Manufacturer's Technical Representative: Steve Unger		
Mailing Address: 13131 West Little York Road, Houston, TX. 770)41	
Telephone: On File Email: On Fil	e	
Product Information		
Product Name: G8000 Series UPS		
Product Type: Universal Power Supply		
Product Model Number: SEE ATTACHMENT 1 (List all unique product identification numbers and/or part numbers)		
General Description: <u>A continuous duty, double conversion three-p</u> Supply system. The UPS consists of an AC/DC Rectifier, DC/DC Co integral static bypass, front-accessible controls, display, and monitor and required to address anomalies observed during tests shall be ind	nverter/Battery Charger, DC . Seismic enhancements m	C/AC IGBT Inverter, ade to the test units
Mounting Description: SEE ATTACHMENT 1	I	
Applicant Information		
Applicant Company Name: EASE Co.		
Contact Person: JONATHAN ROBERSON, S.E.		
Mailing Address:5877 Pine Ave, Suite 210, Chino Hills, CA. 91709		
Telephone: (909) 606-7622 Email: (909)	606-7622	
I hereby agree to reimburse the Office of Statewide Health accordance with the California Administrative Code, 2016.	Planning and Developr	ment review fees in
Signature of Applicant:	Date:	2/8/2017
Title: PRINCIPAL ENGINEER Company Name: EASE		
		OSHPD
"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs" STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY		051110
OSH-FD-759 (REV 12/16/15)		Page 1 of 3

STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY OSH-FD-759 (REV 12/16/15)

Page 1 of 3

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)											
Company Name: EASE Co.											
Name: Jonathan Roberson, S.E. California License Number: S4197											
Mailing Address: _5877 Pine Ave, Suite 210, Chino Hills, CA. 91709											
Telephone: 909-606-7622 Email: jon@easeco.com											
Supports and Attachments Preapproval											
Supports and attachments are preapproved under OPM- (Separate application for OSHPD Preapproval of Manufacturer's Certification (OPM) of Supports and attachments is required)											
Supports and attachments are not preapproved											
Certification Method											
 Testing in accordance with: ICC-ES AC156 Other (Please Specify):											
Testing Laboratory											
Company Name: Environmental Testing Laboratory, Inc.											
Contact Name: Brady Richard											
Mailing Address: 11034 Indian Trail, Dallas, TX 75229-3513											
Telephone: 972-247-9657 Email: <u>brady@etIdallas.com</u>											

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STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-759 (REV 12/16/15)



Page 2 of 3

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION											
Design Basis of Equipment or Components $(F_p/W_p) = 1.5$											
S_{DS} (Design spectral response acceleration at short period, g) = 2.0											
a_p (In-structure equipment or component amplification factor) = 2.5											
R_p (Equipment or component response modification factor) = 6.0											
Ω_0 (System overstrength factor) = 2.0											
I_p (Importance factor) = 1.5											
z/h (Height factor ratio) = 1.0											
Equipment or Component Natural Frequencies (Hz) = SEE ATTACHMENT 1											
Overall dimensions and weight (or range thereof) = SEE ATTACHMENT 1											
Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15: \Box Yes \boxtimes No Design Basis of Equipment or Components (V/W) =											
List of Attachments Supporting Special Seismic Certification											
Image: Second system Image: Second system <td< td=""></td<>											
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2022											
Signature: Date: $2/9/2017$ Print Name: M. R. Karim Title: SHFR Special Seismic Certification Valid Up to : Sps (g) = 2.0 $z/h =$ 1.0 Candidian of Assessed (if applicable) In the time time time time time time time tim											
Condition of Approval (if applicable):Approval is limited to units with "S" in character position 16 of the model number identified as Typeform on the product label.											

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-759 (REV 12/16/15)

Page 3 of 3

OSHPD

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

TOSHIBA

TABLE 1:

EASE

Manufacturer	TOSHIB	A INTERNATIONAL	CORPORAT	ION					
Product Line	G8000 S								
		VOLTAGE	DI	MENSIONS (N.)	MAX. WT.			
RATIN	G	(IN / OUT)	W	W D H		(LB.)	MOUNTING	BASIS ^[1]	
80kV/	۹ ا	480V / 200V	36.8	32.5	79.2	2,316	Floor	INT	
80kV	٩	480V / 480V	36.8	32.5	79.2	1,851	Floor	INT	
80kV	۹.	480V / 480V	36.8	32.5	79.2	1,851	Floor	INT	
100kV	Ά	480V / 200V	36.8	32.5	79.2	2,316	Floor	UUT-37100901-3	
100kV	'A	480V / 480V	36.8	32.5	79.2	1,851	Floor	UUT-3710011-1	
120kV	'A	480V / 480V	55.1	31.8	79.2	2557	Floor	INT	
150kV	Ά	480V / 480V	55.1	31.8	79.2	2557	Floor	INT	
175kV	'A	480V / 480V	55.1	31.8	79.2	3157	Floor	INT	
225kV	Ά	480V / 480V	55.1	31.8	79.2	3157	Floor	UUT-3710101-3	
Mount		<u>se (Floor):</u> free-standing Iteral support above the		l d tower configu	ration with the	component rigidl	y attached to a su	porting structure,	
Notes	• IN	SIS: UT#: Indicates that a te IT (Interpolate/Extrapola stablished through evalu	ate): indicates a	model that was	s not specifical	ly tested, and by			



EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

TOSHIBA

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

ATTACHMENT PAGE | 2 OF 2

Table 2: Seismically Qualified G8000 Series Models

Digit 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Sample Model #	8	0	s	3	K	1	0	к	К	6	х	S	Р	Т	S

DIGIT	PARAMETER	ALPHANUMERIC CHARACTER DEFINITION	ACCEPTED CHARACTERS
1, 2, 3	Product Series Identifier	T80 = Toshiba G8000 series T8i = Toshiba G8000i series T8M = Toshiba G8000MM series	Т80 Т8і
4	AC Input V identifier	F = 200 / 208V N = 380/400V S = 480V M = 600V	FNSM
5	Input Phase quantity identifier	1 = Single Phase 3 = Three Phase	3
6	AC Output V identifier	F = 200 / 208V K = 480V P = 380V Q = 400V M = 600V	F K P Q
7, 8, 9	UPS kVA rating	08K = 80 kVA / kW 10K = 100 kVA / kW 80 kVA / kW 100 kVA / kW 120 / 125 kVA / kW 150 kVA / kW 175 / 180 kVA / kW 225 kVA / kW	08K 10K 08K 10K 12K 15K 15K 18K 22K
10	Alternate Bypass AC Input V identifier	F = 200 / 208V K = 480V P = 380V Q = 400V M = 600V	F K P Q
11	Output Frequency identifier	5 = 50 Hz 6 = 60 Hz	5 6
12	Bypass options	N = No Option X = Standard option	x
13	Parallel Options	S = Single Module M = Parallel Module	S
14,15	OEM client / customer identification	PT = Philips Healthcare TM = Toshiba Medical 2H = Toshiba International Corporation mfr. version code NH = Toshiba International Corporation mfr. version code	PT TM 2H NH
16	Special Seismic Certification or Specific identification code	S = Seismically Qualified	S

Note: Only characters listed in the last column are recognized and accepted by this document.



EASE EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

TOSHIBA

ATTACHMENT PAGE | 1 OF 2

ATTACHMENT 2: TEST SPECIMEN SUMMARY

UUT-3710	00901-3			G80)00- 1	100kVA U	PS (480V/2	200\	/) UPS			
Manufacturer:	Toshiba	International Corpora	ation					-	The bran	- A		and the second value of th
Identification:	Typeforr	m: T80S3F10KK6XS	ТМ						-	-		
											87.0	
Description:	Power S distributi critical Ic * / * I * i * f Unit full	uous duty, three-pha upply system. The U on system to provide bads. The UPS consi AC/DC Rectifier, DC/DC Converter/Ba DC/AC IGBT Inverter ntegral static bypass ront-accessible contri of operating content	PS operates ut high quality, u sts of an: ttery Charger, , rols, display and during test.	tilizing th ninterru d monito	he exis ıptible	ting power	6		1			
Properties:												
		DIMENSIONS (in.)					LOWI	EST F	RESONAN	T FREQUE	ENCY	(Hz.)
Widt	h	Depth	Height		V	/eight (lb.)	FRONT-AXI	S	SIDE-	AXIS	VE	RTICAL-AXIS
37		32	78.625			2316	4.6		8.	4		15.9
Shake Table	Test Para	meters										
COD	CODE TEST CRITERIA S _{DS} (g)			z/	/h	l _P	A _{FLX-H} (g)	A	кід-н (g)	ıg-н (g) А _{FLX-V} (A _{RIG-V} (g)
CBC 2	016	ICC-ES AC156	2.0	1	1	1.5	3.2		2.4	1.34		0.54
Unit mainta	ained struc	tural integrity and re	mained function	nal per r	manufa	acturer requirer	nent after the AC	:156 t	est.			

G8000-100kVA (480V/480V) UPS UUT-3710011-1 Toshiba International Corporation Manufacturer: Identification: Typeform: T80S3K10KK6XS2H Description: A continuous duty, three-phase, on-line, solid-state Uninterruptible Power Supply system. The UPS operates utilizing the existing power distribution system to provide high quality, uninterruptible power to critical loads. The UPS consists of an: * AC/DC Rectifier, * DC/DC Converter/Battery Charger, * DC/AC IGBT Inverter, * integral static bypass, * front-accessible controls, display and monitor. Unit included modifications not found on standard production units. Unit full of operating content during test. Mounting: Floor mounted using (4) - 5/8" dia. gr. 8 bolts. Properties:

	DIMENSIONS (in.)			LOWEST RESONANT FREQUENCY (Hz.)									
Width	Depth	Height		Weight (lb.)	FRONT-AXIS		SIDE-AXIS		VEF	RTICAL-AXIS			
37	31.5	79		1851	5.1		5.8		12.4				
Shake Table Test Pa	Shake Table Test Parameters												
CODE	TEST CRITERIA	S _{DS} (g)	z/h	l _P	A _{FLX-H} (g)	A	_{RIG-Н} (g)	A _{FLX-V} ((g)	A _{RIG-V} (g)			
CBC 2016	ICC-ES AC156	2.0	1	1.5	3.2	.2 2.4		1.34		0.54			
Unit maintained str	ructural integrity and re	mained functio	nal per m	anufacturer requirem	nent after the AC	156 te	est.						



EASE EQUIPMENT ANCHORAGE

TOSHIBA

ATTACHMENT 2: TEST SPECIMEN SUMMARY

ATTACHMENT PAGE | 2 OF 2

UUT-3710	0101-3			G	8000)-225kVA	(480V/480	V)	UPS			
Manufacturer:	Toshiba	International Corpor	ation						HAN!	2		
Identification:	G8000-2	225kVA (480V/480V)	UPS		-			-				
							4				Ì.	-
Description:	Power S distributi critical Ic * / * [* i * f Unit full	uous duty, three-pha supply system. The U on system to provide bads. The UPS consi AC/DC Rectifier, DC/DC Converter/Ba DC/AC IGBT Inverter ntegral static bypass front-accessible contr of operating content bunted using (4) – 5/8	PS operates up high quality, u sts of an: ttery Charger, , rols, display an during test.	tilizing th ninterrup d monito	ie exist otible p	ing power					-	
Properties:							•					
		DIMENSIONS (in.)					LOW	EST	RESONAN	T FREQUE	ENCY	(Hz.)
Widt	h	Depth	Height		W	eight (lb.)	FRONT-AXI	S	SIDE	AXIS	VE	RTICAL-AXIS
55.1		31.8	79.2			3157	5.1		5.	8	12.4	
Shake Table	Test Para	meters										
COD	E	TEST CRITERIA	RIA S _{DS} (g)		h	l _P	A _{FLX-H} (g)	Å	А _{RIG-Н} (g)	_{I-H} (g) A _{FLX-V}		A _{RIG-V} (g)
CBC 20	016	ICC-ES AC156	2.0	1		1.5	3.2		2.4	1.34		0.54
Unit mainta	ained struc	ctural integrity and re	mained function	nal per n	nanufa	cturer require	nent after the AC	:156 t	test.			