



Certificate of Compliance

Certificate: 2718273

Master Contract: 260727

Project: 2718273

Date Issued: April 25, 2014

Issued to: **Astec International Limited - Philippine Branch**
3rd & 4th Fl Techno Plaza One Bldg
18 Orchard Rd, Eastwood City
Cyberpark, Bagumbayan
Quezon City, 1110
Philippines
Attention: Mr. Melson Torrijos

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only



Issued by: 
Hades Lee

PRODUCTS

CLASS 5311 11 – POWER SUPPLIES - Component Type (For Canadian Certification)

CLASS 5311 91 – POWER SUPPLIES - Component Type (For US Certification)

Component type DC/DC Converter, Models and Ratings as follow:

INPUT: Nominal: 24Vdc - Range: 9-36Vdc - Recommended input fuse: 1500mA

Model	Rated input current (mA)	Output voltage (Vdc)	Output current (mA)
ATA00F18x-L	110	3,3	600
ATA00A18x-L	160	5,0	600
ATA00B18x-L	160	12	250
ATA00C18x-L	160	15	200
ATA00H18x-L	160	24	125
ATA00AA18x-L	160	±5	±300
ATA00BB18x-L	160	±12	±125
ATA00CC18x-L	160	±15	±100



Certificate: 2718273
Project: 2718273

Master Contract: 260727
Date Issued: April 25, 2014

INPUT: Nominal: 48Vdc - Range: 18-75Vdc - Recommended input fuse: 800mA

Model	Rated input current (mA)	Output voltage (Vdc)	Output current (mA)
ATA00F36x-L	55	3,3	600
ATA00A36x-L	80	5,0	600
ATA00B36x-L	80	12	250
ATA00C36x-L	80	15	200
ATA00H36x-L	80	24	125
ATA00AA36x-L	80	±5	±300
ATA00BB36x-L	80	±12	±125
ATA00CC36x-L	80	±15	±100

INPUT: Nominal: 24Vdc - Range: 9-36Vdc - Recommended input fuse: 1500mA

Model	Rated input current (mA)	Output voltage (Vdc)	Output current (mA)
ATA01F18-L	260	3,3	1450
ATA01A18-L	300	5,0	1200
ATA01B18-L	300	12	500
ATA01C18-L	300	15	400
ATA01H18-L	300	24	250
ATA01AA18-L	300	±5	±600
ATA01BB18-L	300	±12	±250
ATA01CC18-L	300	±15	±200

INPUT: Nominal: 48Vdc - Range: 18-75Vdc - Recommended input fuse: 750mA

Model	Rated input current (mA)	Output voltage (Vdc)	Output current (mA)
ATA01F36x-L	130	3,3	1450
ATA01A36x-L	150	5,0	1200
ATA01B36x-L	150	12	500
ATA01C36x-L	150	15	400
ATA01H36x-L	150	24	250
ATA01AA36x-L	150	±5	±600
ATA01BB36x-L	150	±12	±250
ATA01CC36x-L	150	±15	±200

INPUT: Nominal: 24Vdc - Range: 9-36Vdc - Recommended input fuse: 2000mA

Model	Rated input current (mA)	Output voltage (Vdc)	Output current (mA)
AXA02F18-L	400	3,3	2200
AXA02A18-L	500	5,0	2000
AXA00B18-L	500	12	830
AXA00C18-L	500	15	660



Certificate: 2718273
Project: 2718273

Master Contract: 260727
Date Issued: April 25, 2014

AXA000H18-L	500	24	410
AXA00AA18-L	500	±5	±1000
AXA000BB18-L	500	±12	±410
AXA000CC18-L	500	±15	±330
AXA02F18-L-HS	400	3,3	2200
AXA02A18-L-HS	500	5,0	2000
AXA00B18-L-HS	500	12	830
AXA00C18-L-HS	500	15	660
AXA000H18-L-HS	500	24	410
AXA00AA18-L-HS	500	±5	±1000
AXA000BB18-L-HS	500	±12	±410
AXA000CC18-L-HS	500	±15	±330

INPUT: Nominal: 48Vdc - Range: 18-75Vdc - Recommended input fuse: 1000mA

Model	Rated input current (mA)	Output voltage (Vdc)	Output current (mA)
AXA02F36-L	200	3,3	2200
AXA02A36-L	250	5,0	2000
AXA00B36-L	250	12	830
AXA00C36-L	250	15	660
AXA000H36-L	250	24	410
AXA00AA36-L	250	±5	±1000
AXA000BB36-L	250	±12	±410
AXA000CC36-L	250	±15	±330
AXA02F36-L-HS	200	3,3	2200
AXA02A36-L-HS	250	5,0	2000
AXA00B36-L-HS	250	12	830
AXA00C36-L-HS	250	15	660
AXA000H36-L-HS	250	24	410
AXA00AA36-L-HS	250	±5	±1000
AXA000BB36-L-HS	250	±12	±410
AXA000CC36-L-HS	250	±15	±330

INPUT: Nominal: 24Vdc - Range: 9-36Vdc - Recommended input fuse: 5000mA

Model	Rated input current (mA)	Output voltage (Vdc)	Output current (mA)
AXA04F18-L	700	3,3	4500
AXA04A18-L	940	5,0	4000
AXA01B18-L	940	12	1670
AXA01C18-L	940	15	1340
AXA00H18-L	940	24	835
AXA00BB18-L	940	±12	±835
AXA00CC18-L	940	±15	±670
AXA04F18-L-HS	700	3,3	4500



Certificate: 2718273
Project: 2718273

Master Contract: 260727
Date Issued: April 25, 2014

AXA04A18-L-HS	940	5,0	4000
AXA01B18-L-HS	940	12	1670
AXA01C18-L-HS	940	15	1340
AXA00H18-L-HS	940	24	835
AXA00BB18-L-HS	940	±12	±835
AXA00CC18-L-HS	940	±15	±670

INPUT: Nominal: 48Vdc - Range: 18-75Vdc - Recommended input fuse: 2500mA

Model	Rated input current (mA)	Output voltage (Vdc)	Output current (mA)
AXA04F36-L	350	3,3	4500
AXA04A36-L	470	5,0	4000
AXA01B36-L	470	12	1670
AXA01C36-L	470	15	1340
AXA00H36-L	470	24	835
AXA00BB36-L	470	±12	±835
AXA00CC36-L	470	±15	±670
AXA04F36-L-HS	350	3,3	4500
AXA04A36-L-HS	470	5,0	4000
AXA01B36-L-HS	470	12	1670
AXA01C36-L-HS	470	15	1340
AXA00H36-L-HS	470	24	835
AXA00BB36-L-HS	470	±12	±835
AXA00CC36-L-HS	470	±15	±670

- (1) Where 'x' is blank for DIP type or "S" for surface-mount components.
- (2) Model numbers in this series may be followed by "-HS" for components with a heatsink.

***Note:**

- The subject products were evaluated as components where the suitability with the end product shall be re-evaluated.
- The manufacturer recommends the use of an external input fuse (slow-blow type) as listed for each model above.
- The subject products were evaluated to be suitable to have their input connected to SELV or TNV-2 circuits.
- Maximum case temperature of the converter not to exceed 105°C in end product.

Model Number	Transformer Number	Input Voltage Range	Rated Input Current (mA)	Output Voltage (V dc)	Output Current (mA)
AEE08F18-L	OB-MKWI40-24S033-T1	Nominal: 24Vdc Range: 9-36Vdc Input Fuse: 8000mA	1240	3.3	8000
AEE08A18-L	OB-MKWI40-24S05-T1		1850	5.0	8000
AEE03B18-L	OB-MKWI40-24S12-T1		1870	12.0	3330



Certificate: 2718273

Master Contract: 260727

Project: 2718273

Date Issued: April 25, 2014

AEE02C18-L	OB-MKWI40-24S15-T1		1870	15.0	2670
AEE01H18-L	MKWI40-24S24 (PWB type)		1835	24.0	1670
AEE01BB18-L	OB-MKWI40-24D12-T1		1890	±12.0	±1670
AEE01CC18-L	OB-MKWI40-24D15-T1		1890	±15.0	±1330
AEE08F36-L	OB-MKWI40-48S033-T1	Nominal: 48Vdc Range: 18-75Vdc Input Fuse: 4000mA	620	3.3	8000
AEE08A36-L	OB-MKWI40-48S05-T1		930	5.0	8000
AEE03B36-L	OB-MKWI40-48S12-T1		930	12.0	3330
AEE02C36-L	OB-MKWI40-48S15-T1		930	15.0	2670
AEE01H36-L	MKWI40-48S24 (PWB type)		918	24.0	1670
AEE01BB36-L	OB-MKWI40-48D12-T1		950	±12.0	±1670
AEE01CC36-L	OB-MKWI40-48D15-T1		950	±15.0	±1330

Model Number	Transformer Number	Input Voltage Range	Rated Input Current (mA)	Output Voltage (V dc)	Output Current (mA)
AEE08F18-L-HS	OB-MKWI40-24S033-T1	Nominal: 24Vdc Range: 9-36Vdc Input Fuse: 8000mA	1240	3.3	8000
AEE08A18-L-HS	OB-MKWI40-24S05-T1		1850	5.0	8000
AEE03B18-L-HS	OB-MKWI40-24S12-T1		1870	12.0	3330
AEE02C18-L-HS	OB-MKWI40-24S15-T1		1870	15.0	2670
AEE01H18-L-HS	MKWI40-24S24 (PWB type)		1835	24.0	1670
AEE01BB18-L-HS	OB-MKWI40-24D12-T1		1890	±12.0	±1670
AEE01CC18-L-HS	OB-MKWI40-24D15-T1		1890	±15.0	±1330
AEE08F36-L-HS	OB-MKWI40-48S033-T1	Nominal: 48Vdc Range: 18-	620	3.3	8000



Certificate: 2718273

Master Contract: 260727

Project: 2718273

Date Issued: April 25, 2014

AEE08A36-L-HS	OB-MKWI40-48S05-T1	75Vdc Input Fuse: 4000mA	930	5.0	8000
AEE03B36-L-HS	OB-MKWI40-48S12-T1		930	12.0	3330
AEE02C36-L-HS	OB-MKWI40-48S15-T1		930	15.0	2670
AEE01H36-L-HS	MKWI40-48S24 (PWB type)		918	24.0	1670
AEE01BB36-L-HS	OB-MKWI40-48D12-T1		950	±12.0	±1670
AEE01CC36-L-HS	OB-MKWI40-48D15-T1		950	±15.0	±1330

Note: The suffix “-HS” meaning is the converter with heatsink.

Note:

(1) The above models are intended for use with Information Technology Equipment, where the suitability of the combination is determined by CSA Group.

(2) Maximum operating ambient:

For without heatsink series:

Power Derating Curve 100%, full load:

Maximum ambient (Tma) for 3.3V output models: +66°C

Maximum ambient (Tma) for AEE08A18-L, AEE08A36-L, AEE03B36-L, AEE02C36-L: +51°C

Maximum ambient (Tma) for AEE03B18-L, AEE02C18-L: +45°C

Maximum ambient (Tma) for AEE01H18-L, AEE01H36-L: +57°C

Maximum ambient (Tma) for AEE01BB18-L, AEE01CC18-L, AEE01BB36-L, AEE01CC36-L: +40°C

Power Derating Curve 50%, half load:

Maximum ambient (Tma) for 3.3V output models: +85°C

Maximum ambient (Tma) for AEE08A18-L, AEE08A36-L, AEE03B36-L, AEE02C36-L: +79°C

Maximum ambient (Tma) for AEE03B18-L, AEE02C18-L: +75°C

Maximum ambient (Tma) for AEE01H18-L, AEE01H36-L: +82°C

Maximum ambient (Tma) for AEE01BB18-L, AEE01CC18-L, AEE01BB36-L, AEE01CC36-L: +72°C

For with heatsink series:

Power Derating Curve 100%, full load:

Maximum ambient (Tma) for 3.3V output models: +73°C

Maximum ambient (Tma) for AEE08A18-L-HS, AEE08A36-L-HS, AEE03B36-L-HS, AEE02C36-L-HS: +61°C

Maximum ambient (Tma) for AEE03B18-L-HS, AEE02C18-L-HS: +57°C

Maximum ambient (Tma) for AEE01H18-L-HS, AEE01H36-L-HS: +66°C

Maximum ambient (Tma) for AEE01BB18-L-HS, AEE01CC18-L-HS, AEE01BB36-L-HS, AEE01CC36-L-HS: +52°C



Certificate: 2718273

Master Contract: 260727

Project: 2718273

Date Issued: April 25, 2014

Power Derating Curve 50%, half load:

Maximum ambient (Tma) for 3.3V output models: +90°C

Maximum ambient (Tma) for AEE08A18-L-HS, AEE08A36-L-HS, AEE03B36-L-HS, AEE02C36-L-HS: +84°C

Maximum ambient (Tma) for AEE03B18-L-HS, AEE02C18-L-HS: +80°C

Maximum ambient (Tma) for AEE01H18-L-HS, AEE01H36-L-HS: +86°C

Maximum ambient (Tma) for AEE01BB18-L-HS, AEE01CC18-L-HS, AEE01BB36-L-HS, AEE01CC36-L-HS: +79°C

Model Number	Transformer Number	Input Voltage Range	Rated Input Current (mA)	Output Voltage (Vdc)	Output Current (mA)
AEE10F18-L	MKWI50-24S033 (PWB type)	Nominal: 24 Vdc Range: 9-36 Vdc Input Fuse: 10000 mA	1528	3.3	10000
AEE10A18-L	MKWI50-24S05 (PWB type)		2290	5.0	10000
AEE04B18-L	MKWI50-24S12 (PWB type)		2267	12.0	4170
AEE03C18-L	MKWI50-24S15 (PWB type)		2263	15.0	3330
AEE02H18-L	MKWI50-24S24 (PWB type)		2286	24.0	2080
AEE10F36-L	MKWI50-48S033 (PWB type)	Nominal: 48 Vdc Range: 18-75 Vdc Input Fuse: 5000 mA	764	3.3	10000
AEE10A36-L	MKWI50-48S05 (PWB type)		1145	5.0	10000
AEE04B36-L	MKWI50-48S12 (PWB type)		1134	12.0	4170
AEE03C36-L	MKWI50-48S15 (PWB type)		1134	15.0	3330
AEE02H36-L	MKWI50-48S24 (PWB type)		1143	24.0	2080

Model Number	Transformer	Input Voltage	Rated Input	Output Voltage	Output Current
--------------	-------------	---------------	-------------	----------------	----------------



Certificate: 2718273

Master Contract: 260727

Project: 2718273

Date Issued: April 25, 2014

	Number	Range	Current (mA)	(Vdc)	(mA)
AEE10F18-L-HS	MKWI50-24S033 (PWB type)	Nominal: 24 Vdc Range: 9-36 Vdc Input Fuse: 10000 mA	1528	3.3	10000
AEE10A18-L-HS	MKWI50-24S05 (PWB type)		2290	5.0	10000
AEE04B18-L-HS	MKWI50-24S12 (PWB type)		2267	12.0	4170
AEE03C18-L-HS	MKWI50-24S15 (PWB type)		2263	15.0	3330
AEE02H18-L-HS	MKWI50-24S24 (PWB type)		2286	24.0	2080
AEE10F36-L-HS	MKWI50-48S033 (PWB type)	Nominal: 48 Vdc Range: 18-75 Vdc Input Fuse: 5000 mA	764	3.3	10000
AEE10A36-L-HS	MKWI50-48S05 (PWB type)		1145	5.0	10000
AEE04B36-L-HS	MKWI50-48S12 (PWB type)		1134	12.0	4170
AEE03C36-L-HS	MKWI50-48S15 (PWB type)		1134	15.0	3330
AEE02H36-L-HS	MKWI50-48S24 (PWB type)		1143	24.0	2080

Note: The suffix “-HS” meaning is the converter with heatsink.

Note:

- (1) The above models are intended for use with Information Technology Equipment, where the suitability of the combination is determined by CSA Group.
- (2) Maximum operating ambient:

For without heatsink series:

Power Derating Curve 100%, full load:

Maximum ambient (Tma) for 3.3V output models: +61°C

Maximum ambient (Tma) for AEE10A18-L, AEE02H18-L, AEE10A36-L, AEE02H36-L: +46°C

Maximum ambient (Tma) for AEE04B18-L, AEE03C18-L, AEE04B36-L, AEE03C36-L: +53°C



Certificate: 2718273

Master Contract: 260727

Project: 2718273

Date Issued: April 25, 2014

Power Derating Curve 50%, half load:

Maximum ambient (Tma) for 3.3V output models: +83°C

Maximum ambient (Tma) for AEE10A18-L, AEE02H18-L, AEE10A36-L, AEE02H36-L: +75°C

Maximum ambient (Tma) for AEE04B18-L, AEE03C18-L, AEE04B36-L, AEE03C36-L: +80°C

For with heatsink series:

Power Derating Curve 100%, full load:

Maximum ambient (Tma) for 3.3V output models: +69°C

Maximum ambient (Tma) for AEE10A18-L-HS, AEE02H18-L-HS, AEE10A36-L-HS, AEE02H36-L-HS:
+57°C

Maximum ambient (Tma) for AEE04B18-L-HS, AEE03C18-L-HS, AEE04B36-L-HS, AEE03C36-L-HS:
+62°C

Power Derating Curve 50%, half load:

Maximum ambient (Tma) for 3.3V output models: +87°C

Maximum ambient (Tma) for AEE10A18-L-HS, AEE02H18-L-HS, AEE10A36-L-HS, AEE02H36-L-HS:
+81°C

Maximum ambient (Tma) for AEE04B18-L-HS, AEE03C18-L-HS, AEE04B36-L-HS, AEE03C36-L-HS:
+83°C

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No 60950-1-07, - Information Technology Equipment - Safety - Part 1: General Requirements
2nd Ed. Incl. AM1 (2011)

ANSI/UL Std No 60950-1, 2nd - Information Technology Equipment - Safety - Part 1: General Requirements
Ed. Incl. AM1 (2011)



Supplement to Certificate of Compliance

Certificate: 2718273

Master Contract: 260727

*The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.*

Product Certification History

Project	Date	Description
2718273	April 25, 2014	Multiple Listing for 'Astec International Limited - Philippine Branch'. Model is listed below. (Alt File No. 260727)

Multiple Listing Application/Project No	Listee Model	Submittor Model	Certification Report No
2718273	ATA00F18-L	MDWI03-24S033	231746-2518506
	ATA00A18-L	MDWI03-24S05	
	ATA00B18-L	MDWI03-24S12	
	ATA00C18-L	MDWI03-24S15	
	ATA00H18-L	MDWI03-24S24	
	ATA00AA18-L	MDWI03-24D05	
	ATA00BB18-L	MDWI03-24D12	
	ATA00CC18-L	MDWI03-24D15	
	ATA00F36-L	MDWI03-48S033	
	ATA00A36-L	MDWI03-48S05	
	ATA00B36-L	MDWI03-48S12	
	ATA00C36-L	MDWI03-48S15	
	ATA00H36-L	MDWI03-48S24	
	ATA00AA36-L	MDWI03-48D05	
	ATA00BB36-L	MDWI03-48D12	
	ATA00CC36-L	MDWI03-48D15	
	ATA00F18S-L	MSDWI03-24S033	
	ATA00A18S-L	MSDWI03-24S05	
	ATA00B18S-L	MSDWI03-24S12	
	ATA00C18S-L	MSDWI03-24S15	
	ATA00H18S-L	MSDWI03-24S24	
	ATA00AA18S-L	MSDWI03-24D05	
	ATA00BB18S-L	MSDWI03-24D12	
	ATA00CC18S-L	MSDWI03-24D15	
	ATA00F36S-L	MSDWI03-48S033	
	ATA00A36S-L	MSDWI03-48S05	
	ATA00B36S-L	MSDWI03-48S12	
	ATA00C36S-L	MSDWI03-48S15	
	ATA00H36S-L	MSDWI03-48S24	
	ATA00AA36S-L	MSDWI03-48D05	
	ATA00BB36S-L	MSDWI03-48D12	



Certificate: 2718273
Project: 2718273

Master Contract: 260727
Date Issued: April 25, 2014

ATA00CC36S-L	MSDWI03-48D15
ATA01F18-L	MGWI06-24S033
ATA01A18-L	MGWI06-24S05
ATA01B18-L	MGWI06-24S12
ATA01C18-L	MGWI06-24S15
ATA01H18-L	MGWI06-24S24
ATA01AA18-L	MGWI06-24D05
ATA01BB18-L	MGWI06-24D12
ATA01CC18-L	MGWI06-24D15
ATA01F36-L	MGWI06-48S033
ATA01A36-L	MGWI06-48S05
ATA01B36-L	MGWI06-48S12
ATA01C36-L	MGWI06-48S15
ATA01H36-L	MGWI06-48S24
ATA01AA36-L	MGWI06-48D05
ATA01BB36-L	MGWI06-48D12
ATA01CC36-L	MGWI06-48D15
ATA01F18S-L	MSGWI06-24S033
ATA01A18S-L	MSGWI06-24S05
ATA01B18S-L	MSGWI06-24S12
ATA01C18S-L	MSGWI06-24S15
ATA01H18S-L	MSGWI06-24S24
ATA01AA18S-L	MSGWI06-24D05
ATA01BB18S-L	MSGWI06-24D12
ATA01CC18S-L	MSGWI06-24D15
ATA01F36S-L	MSGWI06-48S033
ATA01A36S-L	MSGWI06-48S05
ATA01B36S-L	MSGWI06-48S12
ATA01C36S-L	MSGWI06-48S15
ATA01H36S-L	MSGWI06-48S24
ATA01AA36S-L	MSGWI06-48D05
ATA01BB36S-L	MSGWI06-48D12
ATA01CC36S-L	MSGWI06-48D15
AXA02F18-L	MJWI10-24S033
AXA02A18-L	MJWI10-24S05
AXA00B18-L	MJWI10-24S12
AXA00C18-L	MJWI10-24S15
AXA000H18-L	MJWI10-24S24
AXA00AA18-L	MJWI10-24D05
AXA000BB18-L	MJWI10-24D12
AXA000CC18-L	MJWI10-24D15
AXA02F36-L	MJWI10-48S033
AXA02A36-L	MJWI10-48S05
AXA00B36-L	MJWI10-48S12
AXA00C36-L	MJWI10-48S15



Certificate: 2718273
Project: 2718273

Master Contract: 260727
Date Issued: April 25, 2014

AXA000H36-L	MJWI10-48S24
AXA00AA36-L	MJWI10-48D05
AXA000BB36-L	MJWI10-48D12
AXA000CC36-L	MJWI10-48D15
AXA02F18-L-HS	MJWI10-24S033-HS
AXA02A18-L-HS	MJWI10-24S05-HS
AXA00B18-L-HS	MJWI10-24S12-HS
AXA00C18-L-HS	MJWI10-24S15-HS
AXA000H18-L-HS	MJWI10-24S24-HS
AXA00AA18-L-HS	MJWI10-24D05-HS
AXA000BB18-L-HS	MJWI10-24D12-HS
AXA000CC18-L-HS	MJWI10-24D15-HS
AXA02F36-L-HS	MJWI10-48S033-HS
AXA02A36-L-HS	MJWI10-48S05-HS
AXA00B36-L-HS	MJWI10-48S12-HS
AXA00C36-L-HS	MJWI10-48S15-HS
AXA000H36-L-HS	MJWI10-48S24-HS
AXA00AA36-L-HS	MJWI10-48D05-HS
AXA000BB36-L-HS	MJWI10-48D12-HS
AXA000CC36-L-HS	MJWI10-48D15-HS
AXA04F18-L	MJWI20-24S033
AXA04A18-L	MJWI20-24S05
AXA01B18-L	MJWI20-24S12
AXA01C18-L	MJWI20-24S15
AXA00H18-L	MJWI20-24S24
AXA00BB18-L	MJWI20-24D12
AXA00CC18-L	MJWI20-24D15
AXA04F36-L	MJWI20-48S033
AXA04A36-L	MJWI20-48S05
AXA01B36-L	MJWI20-48S12
AXA01C36-L	MJWI20-48S15
AXA00H36-L	MJWI20-48S24
AXA00BB36-L	MJWI20-48D12
AXA00CC36-L	MJWI20-48D15
AXA04F18-L-HS	MJWI20-24S033-HS
AXA04A18-L-HS	MJWI20-24S05-HS
AXA01B18-L-HS	MJWI20-24S12-HS
AXA01C18-L-HS	MJWI20-24S15-HS
AXA00H18-L-HS	MJWI20-24S24-HS
AXA00BB18-L-HS	MJWI20-24D12-HS
AXA00CC18-L-HS	MJWI20-24D15-HS
AXA04F36-L-HS	MJWI20-48S033-HS
AXA04A36-L-HS	MJWI20-48S05-HS
AXA01B36-L-HS	MJWI20-48S12-HS
AXA01C36-L-HS	MJWI20-48S15-HS



Certificate: 2718273
Project: 2718273

Master Contract: 260727
Date Issued: April 25, 2014

AXA00H36-L-HS	MJWI20-48S24-HS	
AXA00BB36-L-HS	MJWI20-48D12-HS	
AXA00CC36-L-HS	MJWI20-48D15-HS	
AEE08F18-L	MKWI40-24S033	231746-2661823
AEE08A18-L	MKWI40-24S05	
AEE03B18-L	MKWI40-24S12	
AEE02C18-L	MKWI40-24S15	
AEE01H18-L	MKWI40-24S24	
AEE01BB18-L	MKWI40-24D12	
AEE01CC18-L	MKWI40-24D15	
AEE08F36-L	MKWI40-48S033	
AEE08A36-L	MKWI40-48S05	
AEE03B36-L	MKWI40-48S12	
AEE02C36-L	MKWI40-48S15	
AEE01H36-L	MKWI40-48S24	
AEE01BB36-L	MKWI40-48D12	
AEE01CC36-L	MKWI40-48D15	
AEE08F18-L-HS	MKWI40-24S033-HS	
AEE08A18-L-HS	MKWI40-24S05-HS	
AEE03B18-L-HS	MKWI40-24S12-HS	
AEE02C18-L-HS	MKWI40-24S15-HS	
AEE01H18-L-HS	MKWI40-24S24-HS	
AEE01BB18-L-HS	MKWI40-24D12-HS	
AEE01CC18-L-HS	MKWI40-24D15-HS	
AEE08F36-L-HS	MKWI40-48S033-HS	
AEE08A36-L-HS	MKWI40-48S05-HS	
AEE03B36-L-HS	MKWI40-48S12-HS	
AEE02C36-L-HS	MKWI40-48S15-HS	
AEE01H36-L-HS	MKWI40-48S24-HS	
AEE01BB36-L-HS	MKWI40-48D12-HS	
AEE01CC36-L-HS	MKWI40-48D15-HS	
AEE10F18-L	MKWI50-24S033	231746-2679693
AEE10A18-L	MKWI50-24S05	
AEE04B18-L	MKWI50-24S12	
AEE03C18-L	MKWI50-24S15	
AEE02H18-L	MKWI50-24S24	
AEE10F36-L	MKWI50-48S033	
AEE10A36-L	MKWI50-48S05	
AEE04B36-L	MKWI50-48S12	
AEE03C36-L	MKWI50-48S15	
AEE02H36-L	MKWI50-48S24	
AEE10F18-L-HS	MKWI50-24S033-HS	
AEE10A18-L-HS	MKWI50-24S05-HS	
AEE04B18-L-HS	MKWI50-24S12-HS	
AEE03C18-L-HS	MKWI50-24S15-HS	



Certificate: 2718273

Master Contract: 260727

Project: 2718273

Date Issued: April 25, 2014

	AEE02H18-L-HS	MKWI50-24S24-HS	
	AEE10F36-L-HS	MKWI50-48S033-HS	
	AEE10A36-L-HS	MKWI50-48S05-HS	
	AEE04B36-L-HS	MKWI50-48S12-HS	
	AEE03C36-L-HS	MKWI50-48S15-HS	
	AEE02H36-L-HS	MKWI50-48S24-HS	