

**TDK-Lambda UK Limited**  
Kingsley Avenue, Ilfracombe  
Devon, EX34 8ES, United Kingdom  
Tel: +44 (0) 1271 856600  
Fax: +44 (0) 1271 864894  
[www.emea.lambda.tdk.com/uk](http://www.emea.lambda.tdk.com/uk)

## EU DECLARATION OF CONFORMITY



### QM, QS, QI, KQM and KQS Series

We, TDK Lambda UK Limited, of Kingsley Avenue, Ilfracombe, Devon, EX34 8ES declare under our sole responsibility that the TDK-Lambda power supplies, as detailed on the attached products covered sheets, comply with the provisions of the following European Directives and are eligible to bear the CE mark:

Low Voltage	Directive 2014/35/EU
EMC	Directive 2014/30/EU
RoHS	Directive 2011/65/EU (as amended by 2015/863)

Assurance of conformance of the described product with the provisions of the stated EC Directive is given through compliance to the following standards:

Electrical Safety (LVD)	EN 62368-1:2014/AC:2015
Electromagnetic Compatibility (EMC)	EN 61000-6-3:2007 + A1:2011 EN 61000-6-2:2005 EN 61204-3:2000 EN 55024:2010 EN 55032:2015
Restriction of Hazardous Substances (RoHS)	EN 63000:2018

Our representative in the EU is TDK-Lambda Germany GmbH, located at Karl-Bold-Str. 40, 77855 Achern, Germany.

Note: The EMC performance of a component power supply will be affected by the final installation, compliance to the stated EMC standards and conformance to the EMC Directive must be confirmed after installation by the final equipment manufacturer. For guidance with respect to test conditions please visit our website at [https://emea.lambda.tdk.com/EMC\\_Guidance](https://emea.lambda.tdk.com/EMC_Guidance) or contact your local TDK-Lambda sales office.

**TDK-Lambda UK Limited**  
Kingsley Avenue, Ilfracombe  
Devon, EX34 8ES, United Kingdom  
Tel: +44 (0) 1271 856600  
Fax: +44 (0) 1271 864894  
[www.emea.lambda.tdk.com/uk](http://www.emea.lambda.tdk.com/uk)

## UK DECLARATION OF CONFORMITY



QM, QS, QI, KQM and KQS Series

We, TDK Lambda UK Limited, of Kingsley Avenue, Ilfracombe, Devon, EX34 8ES declare under our sole responsibility that the TDK-Lambda power supplies, as detailed on the attached products covered sheets, comply with the provisions of the following European Directives and are eligible to bear the UKCA mark:

Electrical Equipment (Safety) Regulations 2016

Electromagnetic Compatibility Regulations 2016

Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment Regulations 2012

Assurance of conformance of the described product with the provisions of the stated UK Regulation is given through compliance to the following standards:

Electrical Safety	EN 62368-1:2014/AC:2015
Electromagnetic Compatibility (EMC)	EN 61000-6-3:2007 + A1:2011 EN 61000-6-2:2005 EN 61204-3:2000 EN 55024:2010 EN 55032:2015
Restriction of Hazardous Substances (RoHS)	EN 63000:2018

Note: The EMC performance of a component power supply will be affected by the final installation, compliance to the stated EMC standards and conformance to the EMC Regulation must be confirmed after installation by the final equipment manufacturer. For guidance with respect to test conditions please visit our website [https://emea.lambda.tdk.com/EMC\\_Guidance](https://emea.lambda.tdk.com/EMC_Guidance) or contact your local TDK-Lambda sales office.

## QM, QS, QI, KQM and KQS Series Products Covered

QMshabcdefghklm for modular configurations

Where	s	=	4 for QM4 or QI4 models 5 for QM5 or QI5 models 7 for QM7 or QI7 models 8 for QM8 or QI8 models
	h	=	Hold Up Option Blank for none fitted H for extended hold up B for 2000W converter (QM8 only)
	a	=	Cooling: C for customer air (not applicable to QM5 IEC Models) F for variable speed forward air fan R for variable speed, reverse air
	b	=	Input connector: Blank or S for screw F for faston I for IEC connector (QM5 only)
	c	=	Input fuse: D for dual AC fuses E for single AC fuse in the Live line F for dual AC/DC fuses G for single AC/DC fuse in the +ve input line
	d	=	Leakage option: S for 3.5mA L for 300µA R for 150µA T for 60µA
	e	=	Primary option: blank for none fitted E for global enable T for global inhibit P for PMBus Q for PMBus with individual module enable (KQM700HJx model only, where x can be any letter for non-safety related differences)
	f	=	Standby supply: Blank for none fitted 5 for 5V/2A (Primary option Q or P only) 5H for 5V/2A (Primary option E or T only) 5L for 5V/0.25A (Primary option E or T only) 12 for 12V/1A (Primary option Q or P only) 12H for 12V/1A (Primary option E or T only) 13.5H for 13.5V/0.6A (KQM5001V-x model only)
	g	=	Blank if Primary option P or Q not fitted H for Input Power Present C for Control Pin Active High D for Control Pin Active Low F for PMBus and Control Pin Active High G for PMBus and Control Pin Active Low J for Individual output control, followed by two hexadecimal numbers specifying which modules are on/off (for Q type PMBus option only)

h = Blank for non-industrial leakage  
 C for Industrial leakage, output Y capacitors up to 100nF  
 (Leakage option S only)

May be followed by:

#### Single Output modules

vMcde

Where v = output voltage  
 M = module name (SA, SB or SC)  
 c = S for screw terminal output 'F' for faston  
 d = See letter from Module Signal Option Table  
 e = C for Industrial Leakage, omit for standard leakage

Optionally followed by '-Dxxx' where xxx is the number of mV of droop

#### Dual output modules

v1/v2DHcde

Where v1 = CH1 output voltage  
 v2 = CH2 output voltage  
 DH = module name (DH)  
 c = 'S' for screw terminal output, 'F' for faston  
 d = See letter from Module Signal Option Table  
 e = C for Industrial Leakage, omit for standard leakage

v1/v2DMcde

Where v1 = CH1 output voltage  
 v2 = CH2 output voltage  
 DM = module name (DM)  
 c = 'S' for screw terminal output, 'F' for faston  
 d = See letter from Module Signal Option Table  
 e = C for Industrial Leakage, omit for standard leakage

#### Blanking plates

B/S

Where B/S = Blanking plate

#### Parallel combinations

vZxcde

Where v = output voltage  
 Z = Paralleled output module comprising SB or SC modules  
 x = Number of slots. See table below.  
 c = 'S' for screw terminal output, 'F' for faston  
 d = See letter from Module Signal Option Table  
 e = C for Industrial Leakage, omit for standard leakage

Optionally followed by '-Dxxx' where xxx is the number of mV of droop

### Series connected modules

vYxcde

Where	v	=	output voltage
	Y	=	Series output module comprising SB, SC or DH modules
	x	=	Number of slots. See tables below
	c	=	'S' for screw terminal output, 'F' for faston
	d	=	See letter from Module Signal Option Table
	e	=	C for Industrial Leakage, omit for standard leakage

Optionally followed by '-Dxxx' where xxx is the number of mV of droop

### Series connected Paralleled modules

vHxcde

Where	v	=	output voltage
	H	=	Series connected parallel SB and/or SC modules
	x	=	Number of slots. See tables below
	c	=	'S' for screw terminal output, 'F' for faston
	d	=	See letter from Module Signal Option Table
	e	=	C for Industrial Leakage, omit for standard leakage

Optionally followed by '-Dxxx' where xxx is the number of mV of droop

### Combined DM modules - seriated Channel 1 only

vMxcde

Where	v	=	output voltage
	M	=	Series CH1 output comprising DM modules
	x	=	Number of slots. See tables below
	c	=	'S' for screw terminal output, 'F' for faston
	d	=	See letter from Module Signal Option Table
	e	=	C for Industrial Leakage, omit for standard leakage

Optionally followed by '-Dxxx' where xxx is the number of mV of droop

### Unit options

klm

Where	klm	=	Blank for standard output settings, may be three numbers from 0 to 9 (Preceded by - ) which denotes various output voltage/current settings within the specified ranges of each output for a particular unit. (May define non-safety related parameters/features, e.g reduced primary current limit, reduced OVP)
-------	-----	---	---

### Module Signal Option Table

Letter	Voltage adjustment pot	Module/output inhibit	Module/output good	Remote sense
Blank	Yes	Yes	Yes	Yes
N	Yes	No	No	No
L	No	No	No	No
R	No	No	No	Yes
B	No	No	Yes	No
D	No	No	Yes	Yes
F	No	Yes	No	No
G	No	Yes	No	Yes
H	No	Yes	Yes	No

J	No	Yes	Yes	Yes
K	Yes	No	No	Yes
M	Yes	No	Yes	No
P	Yes	No	Yes	Yes
Q	Yes	Yes	No	No
S	Yes	Yes	No	Yes
T	Yes	Yes	Yes	No

QS[Number of available slots][Hold Up Option]-[Power]-[Voltage][Output Terminal][Standby/Signals][Unit Options]-[non safety related]

Number of available slots = 4, 5 or 7

Hold Up Option = Blank for none fitted, H for Extended Hold Up

Power (max) = 550, 600, 1044, 1080 or 1200 from QS Output Parameters table below

Voltage = Output Voltage from the Vout range in the QS Output Parameters table below

Output Terminal = Blank for Screw terminal, F for Faston terminal

Standby/Signals = Blank or -E5H, -E5L, -T5H, -T5L, -E12H, -T12H, -P5H or -P12H

Where: E = Enable, T = Inhibit and P = PMBus  
5H is 5V/2A, 5L is 5V/0.25A and 12H is 12V/1A

Followed by: (P option only)

H for Input Power Present  
C for Control Pin Active High  
D for Control Pin Active Low  
F for PMBus and Control Pin Active High  
G for PMBus and Control Pin Active Low

Unit Options option] = Blank for defaults or all of -[cooling][input connector][input fuse][leakage

Where [cooling] = F for Variable speed, forward air fan (default), R for Variable speed, reverse air fan, C for Customer air

[Input Connector] = S for screw (default), F for Faston, I for IEC

[Input Fuse] = D for dual AC fuses (default), E for single AC fuse in the live line  
F for dual AC/DC fuses, G for single AC/DC fuse in the +ve line

[Leakage Option] = S for 3.5mA, L for 300  $\mu$ A (default), R for 150 $\mu$ A, T for 60  $\mu$ A

[Non-safety related] = optional - followed by any number of characters indicating non-safety related model differences.

#### QS Output Parameters

Model	Note	Power (max)	Vout (range)	Current (max)	Modules used
QS4	6	550	5-5.3V	110A	1 x ZF Module
-	-	600	12-13.2V	50A	1 x SC Module
-	-	600	24-26.4V	25A	1 x SC Module
-	-	600	30-33V	20A	1 x YC Module
-	-	600	36-39.6V	16.67A	1 x SC Module
-	-	600	48-52.8V	12.5A	1 x SC Module
-	-	600	56-61.6V	10.7A	1 x YC Module
-	-	600	96-105.6V	6.25A	1 x YC Module
QS5	6	550	5-5.3V	110A	1 x ZF Module

-	-	600	12-13.2V	50A	1 x SC Module
-	-	600	24-26.4V	25A	1 x SC Module
-	-	600	30-33V	20A	1 x YC Module
-	-	600	36-39.6V	16.67	1 x SC Module
-	-	600	48-52.8V	12.5A	1 x SC Module
-	-	600	56-61.6V	10.7A	1 x YC Module
-	-	600	96-105.6V	6.25A	1 x YC Module
-	-	1080	12-12.8V	90A	1 x ZF Module
-	-	1200	24-26.4V	50A	1 x YF Module
-	-	1200	48-52.8V	25A	1 x YF Module
QS7	-	1080	12-12.8V	90A	1 x ZF Module
-	-	1200	24-26.4V	50A	1 x YF Module
-	-	1044	36-38.4V	29A	1 x ZF Module
-	-	1200	48-52.8V	25A	1 x YF Module
-	-	1200	72-79.2V	16.6A	1 x YF Module
-	-	1200	96-105.6V	12.5A	1 x YF Module

### Parallel and Series combinations Tables

Series connection number of slots.

Qty of modules	SB		SC		DH	
	Name	Slots	Name	Slots	Name	Slots
1	SB	1	SC	2	YB	1
2	YC	2	YF	4	YP	2
3	YD	3	YM	6	YQ	3
4	YG	4	YN	8	YR	4
5	YH	5	-	-	YS	5
6	YJ	6	-	-	YT	6
7	YK	7	-	-	YV	7
8	YL	8	-	-	YW	8

Limitations of use:

1. Output voltage is the combined seriated modules voltage.
2. Module limitations apply to seriated modules.

Series connection of parallel connected modules

Module	Qty	Slots	Name
ZC	2	4	HC
ZD	2	6	HD
ZF	2	8	HF
ZT	2	6	HT
ZV	2	8	HV
ZC	3	6	HW
ZC	4	8	HX

Limitations of use:

1. Output voltage is the combined seriated modules voltage.
2. Module limitations apply to seriated/parallel modules.

Parallel connection number of slots

Number of modules in parallel

Slots	SB	SC	Name
2	2	0	ZC
3	1	1	ZD
4	0	2	ZF
6	0	3	ZH
3	3	0	ZT
4	4	0	ZV

See ratings in Module output ratings table below

DH outputs in series but split to create extra outputs.

Qty of modules    Split after output (first output is 1)    Name

2	1	CB
2	3	CD
3	1	FB
3	3	FD
3	5	FG
4	1	GB
4	3	GD
4	5	GG
4	7	GJ
5	1	JB
5	3	JD
5	5	JG
5	7	JJ
5	9	JL
6	1	KB
6	3	KD
6	5	KG
6	7	KJ
6	9	KL
6	11	KN
7	1	LB
7	3	LD
7	5	LG
7	7	LJ
7	9	LL
7	11	LN
7	13	LQ
8	1	MB
8	3	MD
8	5	MG
8	7	MJ
8	9	ML
8	11	MN
8	13	MQ
8	15	MS

Limitations of use:

1. Output voltage is the combined seriated modules voltage.
2. Module limitations apply to seriated modules

Combined DM modules - seriated Channel 1 only.

Number of modules	outputs	Nomenclature
2	3	v1/v2/v3MC
3	4	v1/v2/v3/v4MD
4	5	v1/v2/v3/v4/v5MF
5	6	v1/v2/v3/v4/v5/v6MG
6	7	v1/v2/v3/v4/v5/v6/v7MH
7	8	v1/v2/v3/v4/v5/v6/v7/v8MJ
8	9	v1/v2/v3/v4/v5/v6/v7/v8/v9MK

Limitations of use:

1. Output voltage is the combined seriated modules voltage.
2. Module limitations apply to seriated modules



Series modules:

For series modules, where the Energy Source Classification may change, refer to Energy Source Classification Table and/or the Handbook.

Input Parameters

QM4, QI4, QS4

Input voltage nom. 100 - 240Vac, 144 - 318Vdc (200 - 240Vac, 239 - 318Vdc)\*  
 Input voltage range \*\*85 - 264Vac, 130 - 350Vdc (180 - 264Vac, 215 - 350Vdc)\*  
 Input frequency range 47 - 440Hz or dc  
 Maximum input current 9Arms or 6Adc (6Arms or 5Adc for 650W model)

\* Input for 650W models.

\*\*Output power is derated to 500W between 85-89.9Vac.

Maximum ambient 70°C, total output power and module output power de-rated by 2.5% per °C above 50°C

QM5, QI5, QS5

Input voltage nom. 100 - 240Vac, 144 - 318Vdc (200 - 240Vac, 239 - 318Vdc)\*  
 Input voltage range \*\*85 - 264Vac, 130 - 350Vdc (180 - 264Vac, 215 - 350Vdc)\*  
 Input frequency range 47 - 440Hz or dc  
 Maximum input current 11Arms or 7Adc (9Arms or 7Adc for 800 or 1200W model)

\* Input for 1200W models.

\*\*Output power is derated to 650W between 85-89.9Vac.

Maximum ambient 70°C, (65°C for option I) total output power and module output power de-rated by 2.5% per °C above 50°C

QM7, QI7, QS7

Input voltage nom. 100 - 240Vac, 144 - 318Vdc (166.7 - 240Vac, 239 - 318Vdc)\*  
 Input voltage range \*\*85 - 264Vac, 130 - 350Vdc (150 - 264Vac, 215 - 350Vdc)\*  
 Input frequency range 47 - 440Hz or dc  
 Maximum input current 19Arms or 13Adc (14Arms or 9Adc for 1500W model)

\* Input for 1500W models.

\*\*Output power is derated to 1100W between 85-89.9Vac.

Maximum ambient 70°C, total output power and module output power de-rated by 2.5% per °C above 50°C

QM8, QI8

Input voltage nom. 100 - 240Vac, 144 - 318Vdc (166.7 - 240Vac, 239 - 318Vdc)\*  
 Input voltage range \*\*85 - 264Vac, 130 - 350Vdc (150 - 264Vac, 215 - 350Vdc)\*  
 Input frequency range 47 - 440Hz or dc  
 Maximum input current 19Arms or 13Adc (14Arms or 10Adc for 1500W model)

\* Input for 1500W models.

\*\*Output power is derated to 1100W between 85-89.9Vac.

Maximum ambient 70°C, total output power and module output power de-rated by 2.5% per 2°C above 50°C

QM8B, QM8IB

Input voltage nom. 100 - 240Vac, 144 - 318Vdc (166.7 - 240Vac, 239 - 318Vdc)\* (200 -240Vac, 239 - 318Vdc)\*\*  
 Input voltage range \*\*\*85 - 264Vac, 130 - 350Vdc (150 - 264Vac, 215 - 350Vdc)\* (180 - 264Vac, 215 - 350Vdc)\*\*  
 Input frequency range 47 - 440Hz or dc  
 Maximum input current 19Arms or 13Adc (14Arms or 10Adc for 1500W model), (15Arms or 12Adc for 2000W model)

\* Input for 1500W models.

\*\*Input for 2000W models.

\*\*\*Output power is derated to 1100W between 85-89.9Vac

Maximum ambient 70°C, total output power and module output power de-rated by 2.5% per 2°C above 50°C

QM4, QI4, QM5, QI5, QM7, QI7 and QM8  
Output parameters

Module output ratings table.

Module	Note	Number of slots	Output Channel	Vout nom	Adjustment range	Output Current	Output Power
DM	5,8,11	1	CH1	12	11.9 to 16.1	10	120
DM	2	1	CH1	17	16 to 21.6	7.5	120
DM	4,5	1	CH1	24	20.8 to 28.2	5	120
DM	-	1	CH2	0	0	0	0
DM	-	1	CH2	3.3	2.8 to 3.8	10	33
DM	-	1	CH2	5	4.25 to 5.75	10	50
DM	-	1	CH2	8	7 to 9.5	10	95
DM	3,8,11	1	CH2	14	11.9 to 16.1	8.3	100
DM	3	1	CH2	24	23.5 to 24.5	4.16	100
DH	1	1	CH1	12	10.2 to 13.8	10	120
DH	1	1	CH1	15	12.75 to 17.25	8	120
DH	1	1	CH1	24	20.4 to 27.6	5	120
DH	1	1	CH1	27	23 to 31	4.4	120
DH	-	1	CH2	0	0	0	0
DH	2	1	CH2	12	10.2 to 13.8	10	120
DH	2	1	CH2	15	12.75 to 17.25	8	120
DH	2	1	CH2	24	20.4 to 27.6	5	120
DH	2	1	CH2	27	23 to 31	4.4	120
SA	-	1	CH1	5	5 to 5.5	15	75
SA	-	1	CH1	12	12 to 13.2	12.5	150
SA	-	1	CH1	15	15 to 16.5	10	150
SA	-	1	CH1	24	24 to 26.4	6.25	150
SB	-	1	CH1	3.3	3.3 to 3.63	37	122
SB	7	1	CH1	3.4	3.2 to 3.6	37	126
SB	-	1	CH1	5	5 to 5.5	30	150
SB	-	1	CH1	8.1	8 to 8.8	25	200
SB	-	1	CH1	12	12 to 13.2	25	300
SB	-	1	CH1	15	15 to 16.5	20	300
SB	-	1	CH1	18	18 to 19.8	16.7	300
SB	-	1	CH1	20	20 to 22	15	300
SB	-	1	CH1	24	24 to 26.4	12.5	300
SB	-	1	CH1	28	28 to 30.8	10.7	300
SB	-	1	CH1	48	48 to 52.8	6.25	300
SC	6	2	CH1	5	5 to 5.5	60	300
SC	-	2	CH1	12	12 to 13.2	50	600
SC	-	2	CH1	17	17 to 18.7	35.29	600
SC	-	2	CH1	24	24 to 26.4	25	600
SC	-	2	CH1	30	30 to 33	20	600
SC	-	2	CH1	36	36 to 39.6	16.7	600
SC	-	2	CH1	48	48 to 52.8	12.5	600

ZC	-	2	CH1	15	15 to 16	36	540
ZC	-	2	CH1	18	18 to 19.2	30	540
ZC	-	2	CH1	28	28 to 30	19.3	540
ZD	-	3	CH1	5	5 to 5.3	80	400
ZD	-	3	CH1	12	12 to 12.8	65	780
ZD	-	3	CH1	24	24 to 25.6	30	720
ZD	-	3	CH1	48	48 to 51.2	15	720
ZF	6	4	CH1	5	5 to 5.3	110	550
ZF	-	4	CH1	12	12 to 12.8	90	1080
ZF	9	4	CH1	17	17 to 18.19	63.5	1080
ZF	-	4	CH1	36	36 to 38.4	29	1044
ZH	10	6	CH1	24	24 to 25.6	62.4	1200
ZT	-	3	CH1	15	15 to 16	50	750
ZV	-	4	CH1	15	15 to 16	66.4	996

Note 1: CH1 limited to 80W when CH2 at 120W. Maximum of 200W across module.

Note 2: CH2 Limited to 80W when CH1 at 120W. Maximum of 200W across module.

Note 3: CH2 has a maximum of 100W. Maximum of 200W across the module.

Note 4: CH1 (24V) has a reduced adjustment range when CH2 is 24V. Reduced adjustment range is 21.6V to 28.8V.

Note 5: CH1 limited to 100W when CH2 at 100W. Maximum of 200W across module.

Note 6: Please see Further De-ratings Table below

Note 7: KQM5001V-x model only

Note 8: 12/12DM Module limited to 180W in slot 2 or 45°C ambient. (QM8 only) or 190W in slot 2 or 45°C ambient at low line (QM4 only)

Note 9: 67A for 10 seconds

Note 10: 1500W at high-line

Note 11: 12/24DM Module limited to 180W at low line in slot 2 or 45°C ambient (QM4 only).

#### Further De-ratings Table

Converter Module		40°C Ambient	45°C Ambient	50°C Ambient	Global Option Fitted	Comments (applicable to 50C ambient only)
QM4*	5SC	60A	-	55A	N/A	Fitted in slots 1+2
-	5SC	60A	-	54A	N/A	Fitted in slots 3+4
-	10YF	60A	-	54A	N/A	-
-	5ZF	110A	-	109A	N/A	-
QM5*	5SC	60A	-	50A	N/A	-
-	10YF	60A	-	50A	N/A	-
-	5ZF	110A	-	90A	N/A	-
QM8	5SC	-	60A	50A	Yes	Fitted in slots 1+2
-	5SC	-	60A	60A	No	Fitted in slots 1+2
-	5SC	-	60A	55A	No	Fitted in slots 3+4
-	5SC	-	60A	55A	Yes	Fitted in slots 3+4
-	5SC	-	60A	55A	N/A	Fitted in slots 7+8
-	10YF,15YM & 20YN	-	60A	55A	No	Limited by SC Module in slots 1+2
-	10YF,15YM & 20YN	-	60A	50A	Yes	Limited by SC Module in slots 1+2
-	10HF	-	110A	90A	Yes	-
-	10HF	-	110A	90A	No	-
-	5ZF	-	110A	90A	Yes	Fitted in slots 1 to 4
-	5ZF	-	110A	90A	No	Fitted in slots 1 to 4
-	5ZF	-	110A	100A	Yes	Fitted in slots 3 to 8
-	5ZF	-	110A	100A	No	Fitted in slots 3 to 8
QS4*						
QS5*						

### Cooling options QM4/QS4/QI4

Cooling option	Input voltage (Vac nom)	Output power (W)	Ambient °C
F (Forward air, variable speed)	100-240*	550	50
	200-240**	650	50
C (Customer air)	100-240*	550	50
	200-240**	650	50
R (Reverse air, variable speed fan)	100-240*	550	40
	200-240**	650	40
	100-240*	300	50
	200-240**	300	50

\*144 - 318Vdc nom.

\*\*239 - 318Vdc nom.

### Cooling options QM5/QS5/QI5

Cooling option	Input voltage (Vac nom)	Output power (W)	Ambient °C
F (Forward air, variable speed)	100-240*	700	50
	200-240**	800	50
	200-240**	1200	50
C (Customer air***)	100-240*	700	50
	200-240**	800	50
	200-240**	1200	50
R (Reverse air, variable speed fan)	100-240*	700	35
	200-240**	800	30
	200-240**	1200	30

\*144 - 318Vdc nom.

\*\*239 - 318Vdc nom.

### Cooling options QM7/QS7/QI7

Cooling option	Input voltage (Vnom)	Output power (W)	Ambient (°C)
F (Forward air, variable speed)	100-240*	1200	50
	166.7-240**	1500	50
C (Customer air)	100-240*	1200	50
	166.7-240**	1500	50
R (Reverse air, variable speed fan)	100-240*	1200	40

\*144 - 318Vdc nom.

\*\*239 - 318Vdc nom.

### Cooling options QM8/QI8

Cooling option	Input voltage (Vnom)	Output power (W)	Ambient (°C)
F (Forward air, variable speed)	100-240*	1200	50
	166.7-240**	1500	50
C (Customer air)	100-240*	1200	50
	166.7-240**	1500	50
R (Reverse air, variable speed fan)	100-240*	1000	45

\*144 - 318Vdc nom.

\*\*239 - 318Vdc nom.

### Cooling options QM8B/QI8B

Cooling option	Input voltage (Vnom)	Output power (W)	Ambient (°C)
F (Forward air, variable speed)	100-240*	1200	50
	166.7-240**	1500	50
	200-240**	2000	50
C (Customer air)	100-240*	1200	50
	166.7-240**	1500	50
	200-240**	2000	50
R (Reverse air, variable speed fan)	100-240*	1000	45

\*144 - 318Vdc nom.

\*\*239 - 318Vdc nom.

Non-standard models (as standard models except where stated below):

KQM5001V-x (where x may be any letter for non-safety differences)

The KQM5001V-x is a non-standard QM5 model:  
 QM5CSDLE13.5H 3.4SBS 12.2SBS 5.2SBS-D100 5.2SCS-D100  
 Input rating: 47 - 63Hz, 12Arms max  
 Max output power: 815W  
 Max ambient 50°C  
 Customer air

KQM700HJx (where x may be any letter for non-safety differences)

The KQM700HJx is 7 slot non-standard QM7 model:  
 NS-TLA/QM7FSDLQ5J3EC B/S 24SBSC 24SBSC 24SBSC 24SBSC 12SBSC B/S  
 This model has an option Q PMBus fitted in slot 1.

The KQM700NNx (where x may be any letter) is a non-standard QM7 model:

NS-TLA/QM7FSDR 48FYS B/S B/S B/S  
 With standard module output and the following peak output:

Max frequency (Hz)	750
Output voltage (Vnom)	48
Pulse duration (ms)	0.15 to 1
Max Duty cycle %	60
Peak current (A)	35

KQM7016Mx (where x may be any letter for non-safety differences)

The KQM7016Mx is a 7 slot non-standard QM7 model:  
 NS-TLI/QM7FSDL 165YD 48SBS 48SBS B/S B/S  
 This model uses 3 non-standard 48VSB modules, adjusted to 55Vdc, to give a maximum output of 165Vdc. Total output power of converter is 1305W

KQM70143x (where x may be any letter for non-safety differences)

The KQM70143x is a 7 slot non-standard QM7 model:  
 NS-TLA/QM7FSDLT5H 48YFS 24SBS B/S B/S  
 The total output power for this configuration is 1500W, at an input of 120Vac nom.

KQM501DWx (where x may be any letter for non-safety differences)

KQM501DWx is a non-standard QM5 model.  
 NS-TLI/QM5RSDL 12/5.2DMS 12/5.2DMS 12/3.5DMS 24SB B/S  
 This reverse air configuration is limited to a maximum of 350 Watts in a 50°C ambient.

KQM701HTx (where x may be any letter for non-safety differences)

NS-TLA/QM7CSDSP5HC 18ZHSC B/S  
 This non-standard has additional signal components added to both the PFC and PMBus PCBs.

## QM, QS, QI, KQM and KQS Series Signature Page

Name of Authorized Signatory	Christopher Haas
Signature of Authorized Signatory	
Position of Authorized Signatory	Head of Quality & Compliance Europe
Date	23 September 2021
Date when this CE declaration first issued	15 September 2016
Date when this UKCA declaration first issued	6 April 2021
Place where signed	Achern, Germany

This declaration is signed for and on behalf of TDK-Lambda