ZERTIFIKAT ◆ CERTIFICATE ◆ 認証証書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Product Service

CERTIFICATE

No. Z2 17 04 13890 02828

Holder of Certificate: **Astec International Ltd.**
16th Floor, Lu Plaza, 2 Wing Yip Street
Kwun Tong
Kowloon
HONG KONG

Certification Mark:

Product: **Switch mode power supplies**
(Switching Mode Power Supply for Building-in)

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

Test report no.: 68230001405

Valid until: 2019-06-19

Date, 2017-04-11 (Yager Bi)

TÜV®

ZERTIFIKAT ◆ CERTIFICATE ◆ 認証証書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Product Service

CERTIFICATE
No. Z2 17 04 13890 02828

Model(s): LPQ200A-M, LPQ200C-M, LPQ201-M, LPQ202-M

Parameters:

Rated Input :	100-250V, 50/60Hz, 3.5A MAX. or 120-300VDC, 3A
Rated Output :	See page 3 for details
Protection Class :	I
Degree of Protection :	IPX0

Remarks :
- When installing the equipment, all requirements of the mentioned standard must be fulfilled.
- Refer to the installation and operating instruction from manufacturer for the details of loading condition and operating temperature.
- Clearance was evaluated for operating altitude up to 4000m above sea level.
- Built-in type equipment, suitable enclosure should be provided in end system.
- These power supplies have been evaluated according to EN 60601-1/A1:2013 with the following conditions:

1.The output was not evaluated as patient connected circuits.
2.Compliance with the requirements for EMC shall be evaluated for the end use product.
3.These power supplies have been investigated only as a component part for use in equipment where the suitability of the combination is subject to end product investigation.
4.These power supplies are designed to be protectively earthed. Earthing connection and continuity test shall be checked in end product.
5.These power supplies must be installed in accordance with the instruction manual.
6.The leakage current test shall be checked in end product.
7.The risk management requirements of the standard were not addressed.
8.Clearance/creepage distance and dielectric strength were evaluated and fulfilled the requirements for MOPP.

Tested according to: EN 60601-1:2006/A1:2013
EN 60950-1:2006/A2:2013

Production Facility(ies): 28532

CERTIFICATE
No. Z2 17 04 13890 02828

Product Service

Model: LPQ200A-M, LPQ201-M					
Output terminal	Output ratings				
	Output voltage (VDC)	Max. output current under forced air condition (A)	Max. output current under natural convection condition (A)	Max. output power under forced air condition (W)	Max. output power under natural convection condition (W)
V1 Module	2.97 to 6.5	18	13	108	70
	6.6 to 13.2	9	6	108	70
	13.3 to 16.5	7.2	5	108	70
V2 Module	2.97 to 6.5	18	13	108	70
	6.6 to 13.2	9	6	108	70
	13.3 to 16.5	7.2	5	108	70
V3 Module	2.97 to 6.5	9	5	108	60
	6.6 to 13.2	9	5	108	60
	13.3 to 16.5	7.2	4	108	60
V4 Module	-7.2 to -13.2	2	1	28	15
	-13.3 to -16.5	1.5	1	28	15

Model: LPQ200C-M, LPQ202-M					
Output terminal	Output ratings				
	Output voltage (VDC)	Max. output current under forced air condition (A)	Max. output current under natural convection condition (A)	Max. output power under forced air condition (W)	Max. output power under natural convection condition (W)
V1 Module	2.97 to 6.5	18	13	108	70
	6.6 to 13.2	9	6	108	70
	13.3 to 16.5	7.2	5	108	70
V2 Module	2.97 to 6.5	18	13	108	70
	6.6 to 13.2	9	6	108	70
	13.3 to 16.5	7.2	5	108	70
V3 Module	21.6 to 28.8	3	1.5	72	36
V4 Module	-7.2 to -13.2	2	1	28	15
	-13.3 to -16.5	1.5	1	28	15

Notes:

- Total power shall not exceed 200VA with 30CFM forced-air cooling.

- Total power shall not exceed 100VA with natural convection cooling.

- For natural convection cooling:
1) If V1 & V2 outputs are set to 5V & 3V combination and vice versa, combined power shall ≤75W.
2) If V1 & V2 outputs are set to 3V or below combination, combined power shall ≤70W.