



Product Service

# CERTIFICATE

No. Z1A 086894 0024 Rev. 05

**Holder of Certificate:** **ZHONGSHAN PROTOSTAR  
optoelectronic Co.,Ltd**

No.6,Fuheng Dong Road, Yongxing Ind.Zone, Henglan Town  
528478 Zhongshan,Guangdong  
PEOPLE'S REPUBLIC OF CHINA

**Certification Mark:**



**Product:** **Electric insect killers / Equipment for  
varmint protection  
(Electric insect killer)**

**Tested according to:** EN 60335-1:2012/A16:2023  
EN 60335-2-59:2003/A11:2018  
EN 62233:2008  
AfPS GS 2019:01 PAK

With this certificate, in its capacity as a notified GS body, TÜV SÜD Product Service GmbH issues the GS Mark to the named certificate holder for the declared product with the named model designation in accordance with section 20 ProdSG (German Product Safety Act). The product meets the safety and health requirements of section 20 (3) ProdSG. The manufacturer is reminded of their obligations in accordance with section 24 ProdSG. The certification marks shown above can be affixed on the product. It is not permitted to alter the certification marks in any way. In addition, the certificate holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the Testing, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:** 64110190009706

**Valid until:** 2029-11-19

**Date,** 2024-11-20

( Darius Guo )

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## Model(s):

### Series I:

#### N12W-(14W) series:

DK90-2X6L1, DK90B-2X6L1, JB20B-2X6L1, JB20C-2X6L1, JB20D-2X6L1, JB20E-2X6L1, JB20M-2X6L1, JB90D-2X6L1, JB90M-2X6L1, JR89-2X6L1, JR89A-2X6L1, JX888-2X6L1, SP100-2X6L1, SP100A-2X6L1, N85A-2X6L1, JB20F-2X6L1, JX80-2X6L1

#### N16W-(15W) series:

DK90-2X8L1, DK90B-2X8L1, JB20B-2X8L1, JB20C-2X8L1, JB20D-2X8L1, JB20E-2X8L1, JB20M-2X8L1, JB90D-2X8L1, JB90M-2X8L1, JR89-2X8L1, JR89A-2X8L1, JX888-2X8L1, N85A-2X8L1, JB20F-2X8L1, JX80-2X8L1

#### N20W-(17W) series:

B20E-2X10L1, B20P-2X10L1, DK90-2X10L1, DK90B-2X10L1, JA220D-2X10L1, JB20B-2X10L1, JB20C-2X10L1, JB20D-2X10L1, JB20E-2X10L1, JB20M-2X10L1, JB90D-2X10L1, JB90M-2X10L1, JR89-2X10L1, JR89A-2X10L1, JX888-2X10L1, N85A-2X10L1, JB20F-2X10L1, JX80-2X10L1

#### N30W-(19W) series:

B20E-2X15L1, B20P-2X15L1, DK90-2X15L1, DK90B-2X15L1, JA220D-2X15L1, JB20B-2X15L1, JB20C-2X15L1, JB20D-2X15L1, JB20E-2X15L1, JB20M-2X15L1, JB90D-2X15L1, JB90M-2X15L1, JR89-2X15L1, JR89A-2X15L1, JX888-2X15L1, N85A-2X15L1, SP100-2X15L1, SP100A-2X15L1, JB20F-2X15L1, JX80-2X15L1

#### N40W-(24W) series:

B20E-2X20L1, B20P-2X20L1, DK90-2X20L1, DK90B-2X20L1, JA220D-2X20L1, JB20B-2X20L1, JB20C-2X20L1, JB20D-2X20L1, JB20E-2X20L1, JB20M-2X20L1, JB90D-2X20L1, JB90M-2X20L1, JR89-2X20L1, JR89A-2X20L1, JX888-2X20L1, N85A-2X20L1, SP100-2X20L1, SP100A-2X20L1, JB20F-2X20L1, JX80-2X20L1

### Series II:

#### N12W-(7W) series:

DK90-2X6L2, DK90B-2X6L2, JB20B-2X6L2, JB20C-2X6L2, JB20D-2X6L2, JB20E-2X6L2, JB20M-2X6L2, JB90D-2X6L2, JB90M-2X6L2, JR89-2X6L2, JR89A-2X6L2, JX888-2X6L2, SP100-2X6L2, N85A-2X6L2, JB20F-2X6L2, BK-D06LN, BK-1012L, BK-812L, JC-8012BH, JC-K8012BH, YZ-12WJ, YZ-N12WJ, JG-120LED, JG-N120LED, JX80-2X6L2

#### N16W-(9W) series:

DK90-2X8L2, DK90B-2X8L2, JB20B-2X8L2, JB20C-2X8L2, JB20D-2X8L2, JB20E-2X8L2, JB20M-2X8L2, JB90D-2X8L2, JB90M-2X8L2, JR89-2X8L2, JR89A-2X8L2, JX888-2X8L2, N85A-2X8L2, JB20F-2X8L2, JX80-2X8L2

#### N20W-(12W) series:

B20E-2X10L2, DK90-2X10L2, DK90B-2X10L2, JA220D-2X10L2, JB20B-2X10L2, JB20C-2X10L2, JB20D-2X10L2, JB20E-2X10L2, JB20M-2X10L2, JB90D-2X10L2, JB90M-2X10L2, JR89-2X10L2, JR89A-2X10L2, JX888-2X10L2, N85A-2X10L2, JB20F-2X10L2, JX80-2X10L2

#### N30W-(14W) series:

B20E-2X15L2, DK90-2X15L2, DK90B-2X15L2, JA220D-2X15L2, JB20B-2X15L2, JB20C-2X15L2, JB20D-2X15L2, JB20E-2X15L2, JB20M-2X15L2, JB90D-2X15L2, JB90M-2X15L2, JR89-

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2X15L2, JR89A-2X15L2, JX888-2X15L2, N85A-2X15L2, SP100-2X15L2, JB20F-2X15L2, JX80-2X15L2

N40W-(16W) series:

B20E-2X20L2, DK90-2X20L2, DK90B-2X20L2, JA220D-2X20L2, JB20B-2X20L2, JB20C-2X20L2, JB20D-2X20L2, JB20E-2X20L2, JB20M-2X20L2, JB90D-2X20L2, JB90M-2X20L2, JR89-2X20L2, JR89A-2X20L2, JX888-2X20L2, N85A-2X20L2, SP100-2X20L2, JB20F-2X20L2, BK-D20LN, BK-1040L, BK-840L, JC-8040BH, JC-K8040BH, YZ-40WJ, YZ-N40WJ, JG-400LED, JG-N400LED, JX80-2X20L2

Series III:

N12W-(14W) series:

DK90-2X6L3, DK90B-2X6L3, JB20B-2X6L3, JB20C-2X6L3, JB20D-2X6L3, JB20E-2X6L3, JB20M-2X6L3, JB90D-2X6L3, JB90M-2X6L3, JR89-2X6L3, JR89A-2X6L3, JX888-2X6L3, SP100-2X6L3, SP100A-2X6L3, N85A-2X6L3, JB20F-2X6L3, JX80-2X6L3

N16W-(16W) series:

DK90-2X8L3, DK90B-2X8L3, JB20B-2X8L3, JB20C-2X8L3, JB20D-2X8L3, JB20E-2X8L3, JB20M-2X8L3, JB90D-2X8L3, JB90M-2X8L3, JR89-2X8L3, JR89A-2X8L3, JX888-2X8L3, N85A-2X8L3, JB20F-2X8L3, JX80-2X8L3

N20W-(18W) series:

B20E-2X10L3, B20P-2X10L3, DK90-2X10L3, DK90B-2X10L3, JA220D-2X10L3, JB20B-2X10L3, JB20C-2X10L3, JB20D-2X10L3, JB20E-2X10L3, JB20M-2X10L3, JB90D-2X10L3, JB90M-2X10L3, JR89-2X10L3, JR89A-2X10L3, JX888-2X10L3, N85A-2X10L3, JB20F-2X10L3, JX80-2X10L3

N30W-(20W) series:

B20E-2X15L3, B20P-2X15L3, DK90-2X15L3, DK90B-2X15L3, JA220D-2X15L3, JB20B-2X15L3, JB20C-2X15L3, JB20D-2X15L3, JB20E-2X15L3, JB20M-2X15L3, JB90D-2X15L3, JB90M-2X15L3, JR89-2X15L3, JR89A-2X15L3, JX888-2X15L3, N85A-2X15L3, SP100-2X15L3, SP100A-2X15L3, JB20F-2X15L3, JX80-2X15L3

N40W-(25W) series:

B20E-2X20L3, B20P-2X20L3, DK90-2X20L3, DK90B-2X20L3, JA220D-2X20L3, JB20B-2X20L3, JB20C-2X20L3, JB20D-2X20L3, JB20E-2X20L3, JB20M-2X20L3, JB90D-2X20L3, JB90M-2X20L3, JR89-2X20L3, JR89A-2X20L3, JX888-2X20L3, N85A-2X20L3, SP100-2X20L3, SP100A-2X20L3, JB20F-2X20L3, JX80-2X20L3

Series IV:

N12W-(9W) series:

DK90-2X6L4, DK90B-2X6L4, JB20B-2X6L4, JB20C-2X6L4, JB20D-2X6L4, JB20E-2X6L4, JB20M-2X6L4, JB90D-2X6L4, JB90M-2X6L4, JR89-2X6L4, JR89A-2X6L4, JX888-2X6L4, SP100-2X6L4, JX60-2X6L4, JB20F-2X6L4, JX80-2X6L4

N16W-(11W) series:

DK90-2X8L4, DK90B-2X8L4, JB20B-2X8L4, JB20C-2X8L4, JB20D-2X8L4, JB20E-2X8L4, JB20M-2X8L4, JB90D-2X8L4, JB90M-2X8L4, JR89-2X8L4, JR89A-2X8L4, JX888-2X8L4, N85A-2X8L4, JB20F-2X8L4, JX80-2X8L4

N20W-(14W) series:

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B20E-2X10L4, DK90-2X10L4, DK90B-2X10L4, JA220D-2X10L4, JB20B-2X10L4, JB20C-2X10L4, JB20D-2X10L4, JB20E-2X10L4, JB20M-2X10L4, JB90D-2X10L4, JB90M-2X10L4, JR89-2X10L4, JR89A-2X10L4, JX888-2X10L4, N85A-2X10L4, JB20F-2X10L4, BK-D10LN, BK-1020L, BK-820L, JC-8020BH, JC-K8020BH, YZ-20WJ, YZ-N20WJ, JG-200LED, JG-N200LED, BK-D10LN, BK-1020L, BK-820L, JC-8020BH, JC-K8020BH, YZ-20WJ, YZ-N20WJ, JG-200LED, JG-N200LED, JX80-2X10L4

N30W-(17W) series:

B20E-2X15L4, DK90-2X15L4, DK90B-2X15L4, JA220D-2X15L4, JB20B-2X15L4, JB20C-2X15L4, JB20D-2X15L4, JB20E-2X15L4, JB20M-2X15L4, JB90D-2X15L4, JB90M-2X15L4, JR89-2X15L4, JR89A-2X15L4, JX888-2X15L4, N85A-2X15L4, SP100-2X15L4, JB20F-2X15L4, JX80-2X15L4

N40W-(23W) series:

B20E-2X20L4, DK90-2X20L4, DK90B-2X20L4, JA220D-2X20L4, JB20B-2X20L4, JB20C-2X20L4, JB20D-2X20L4, JB20E-2X20L4, JB20M-2X20L4, JB90D-2X20L4, JB90M-2X20L4, JR89-2X20L4, JR89A-2X20L4, JX888-2X20L4, N85A-2X20L4, SP100-2X20L4, JB20F-2X20L4, JX80-2X20L4

Series V:

N12W-(7W) series:

DK90-2X6L5, DK90B-2X6L5, JB20B-2X6L5, JB20C-2X6L5, JB20D-2X6L5, JB20E-2X6L5, JB20M-2X6L5, JB90D-2X6L5, JB90M-2X6L5, JR89-2X6L5, JR89A-2X6L5, JX888-2X6L5, SP100-2X6L5, JX60-2X6L5, JB20F-2X6L5, JX80-2X6L5

N16W-(9W) series:

DK90-2X8L5, DK90B-2X8L5, JB20B-2X8L5, JB20C-2X8L5, JB20D-2X8L5, JB20E-2X8L5, JB20M-2X8L5, JB90D-2X8L5, JB90M-2X8L5, JR89-2X8L5, JR89A-2X8L5, JX888-2X8L5, N85A-2X8L5, JB20F-2X8L5, JX80-2X8L5

N20W-(12W) series:

B20E-2X10L5, DK90-2X10L5, DK90B-2X10L5, JA220D-2X10L5, JB20B-2X10L5, JB20C-2X10L5, JB20D-2X10L5, JB20E-2X10L5, JB20M-2X10L5, JB90D-2X10L5, JB90M-2X10L5, JR89-2X10L5, JR89A-2X10L5, JX888-2X10L5, N85A-2X10L5, JB20F-2X10L5, JX80-2X10L5

N30W-(13W) series:

B20E-2X15L5, DK90-2X15L5, DK90B-2X15L5, JA220D-2X15L5, JB20B-2X15L5, JB20C-2X15L5, JB20D-2X15L5, JB20E-2X15L5, JB20M-2X15L5, JB90D-2X15L5, JB90M-2X15L5, JR89-2X15L5, JR89A-2X15L5, JX888-2X15L5, N85A-2X15L5, SP100-2X15L5, JB20F-2X15L5, JX80-2X15L5

N40W-(17W) series:

B20E-2X20L5, DK90-2X20L5, DK90B-2X20L5, JA220D-2X20L5, JB20B-2X20L5, JB20C-2X20L5, JB20D-2X20L5, JB20E-2X20L5, JB20M-2X20L5, JB90D-2X20L5, JB90M-2X20L5, JR89-2X20L5, JR89A-2X20L5, JX888-2X20L5, N85A-2X20L5, SP100-2X20L5, JB20F-2X20L5, JX80-2X20L5

Series VI:

N12W-(15W) series:

DK90-2X6L6, DK90B-2X6L6, JB20B-2X6L6, JB20C-2X6L6, JB20D-2X6L6, JB20E-2X6L6, JB20M-2X6L6, JB90D-2X6L6, JB90M-2X6L6, JR89-2X6L6, JR89A-2X6L6, JX888-2X6L6,



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SP100-2X6L6, SP100A-2X6L6, N85A-2X6L6, JB20F-2X6L6, JX80-2X6L6

**N16W-(18W) series:**

DK90-2X8L6, DK90B-2X8L6, JB20B-2X8L6, JB20C-2X8L6, JB20D-2X8L6, JB20E-2X8L6, JB20M-2X8L6, JB90D-2X8L6, JB90M-2X8L6, JR89-2X8L6, JR89A-2X8L6, JX888-2X8L6, N85A-2X8L6, JB20F-2X8L6, JX80-2X8L6

**N20W-(20W) series:**

B20E-2X10L6, B20P-2X10L6, DK90-2X10L6, DK90B-2X10L6, JA220D-2X10L6, JB20B-2X10L6, JB20C-2X10L6, JB20D-2X10L6, JB20E-2X10L6, JB20M-2X10L6, JB90D-2X10L6, JB90M-2X10L6, JR89-2X10L6, JR89A-2X10L6, JX888-2X10L6, N85A-2X10L6, JB20F-2X10L6, JX80-2X10L6

**N30W-(22W) series:**

B20E-2X15L6, B20P-2X15L6, DK90-2X15L6, DK90B-2X15L6, JA220D-2X15L6, JB20B-2X15L6, JB20C-2X15L6, JB20D-2X15L6, JB20E-2X15L6, JB20M-2X15L6, JB90D-2X15L6, JB90M-2X15L6, JR89-2X15L6, JR89A-2X15L6, JX888-2X15L6, N85A-2X15L6, SP100-2X15L6, SP100A-2X15L6, JB20F-2X15L6, JX80-2X15L6

**N40W-(26W) series:**

B20E-2X20L6, B20P-2X20L6, DK90-2X20L6, DK90B-2X20L6, JA220D-2X20L6, JB20B-2X20L6, JB20C-2X20L6, JB20D-2X20L6, JB20E-2X20L6, JB20M-2X20L6, JB90D-2X20L6, JB90M-2X20L6, JR89-2X20L6, JR89A-2X20L6, JX888-2X20L6, N85A-2X20L6, SP100-2X20L6, SP100A-2X20L6, JB20F-2X20L6, JX80-2X20L6

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## Parameters:

Rated Voltage:	220-240V
Rated Frequency:	50-60Hz
Rated Power:	<p>14W(N12W-(14W) series);            15W(N16W-(15W) series);            17W(N20W-(17W) series);            19W(N30W-(19W) series);            24W(N40W-(24W) series);</p> <p>7W(N12W-(7W) series);            9W(N16W-(9W) series);            12W(N20W-(12W) series);            14W(N30W-(14W) series);            16W(N40W-(16W) series);</p> <p>14W(N12W-(14W) series);            16W(N16W-(16W) series);            18W(N20W-(18W) series);            20W(N30W-(20W) series);            25W(N40W-(25W) series);</p> <p>9W(N12W-(9W) series);            11W(N16W-(11W) series);            14W(N20W-(14W) series);            17W(N30W-(17W) series);            23W(N40W-(23W) series);</p> <p>7W(N12W-(7W) series);            9W(N16W-(9W) series);            12W(N20W-(12W) series);            13W(N30W-(13W) series);            17W(N40W-(17W) series);</p> <p>15W(N12W-(15W) series);            18W(N16W-(18W) series);            20W(N20W-(20W) series);            22W(N30W-(22W) series);            26W(N40W-(26W) series)</p>
Protection Class:	Class I
Degree of Protection:	<p>IPX4 (SP100A-2X6L1, SP100A-2X15L1, SP100A-2X20L1, B20P-2X10L1, B20P-2X15L1, B20P-2X20L1, SP100A-2X6L3, SP100A-2X15L3, SP100A-2X20L3, B20P-2X10L3, B20P-2X15L3, B20P-2X20L3, SP100A-2X6L6, SP100A-2X15L6, SP100A-2X20L6, B20P-2X10L6, B20P-2X15L6, B20P-2X20L6)</p> <p>IPX0(for other models)</p>