



## HARMONIC CURRENTS CERTIFICATE

HUAWEI TECHNOLOGIES Co., Ltd. declares that the PV Inverter Brand/Model:

HUAWEI SUN2000 8KTL 400V; HUAWEI SUN2000 10KTL 400V; HUAWEI SUN2000 12KTL 400V;  
 HUAWEI SUN2000 15KTL 400V; HUAWEI SUN2000 17KTL 400V; HUAWEI SUN2000 20KTL 400V;  
 HUAWEI SUN2000 23KTL 400V; HUAWEI SUN2000 28KTL 480V;

is conforming to the provisions of IEC 61000-3-4 standard, 'Limitation of emission of harmonic currents in low-voltage power supply systems for equipment with rated current greater than 16 A

| PN    | 8KTL  | 10KTL | 12KTL | 15KTL | 17KTL | 20KTL | 23KTL | 28KTL |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Order | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] |
| 1     | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   |
| 2     | 0.52  | 0.06  | 0.06  | 0.06  | 0.07  | 0.37  | 0.48  | 0.46  |
| 3     | 2.11  | 2.40  | 2.25  | 0.81  | 0.82  | 0.79  | 0.77  | 0.55  |
| 4     | 0.09  | 0.03  | 0.03  | 0.10  | 0.08  | 0.18  | 0.25  | 0.21  |
| 5     | 0.74  | 0.73  | 0.58  | 0.65  | 0.56  | 0.60  | 0.54  | 0.14  |
| 6     | 0.06  | 0.03  | 0.03  | 0.08  | 0.06  | 0.06  | 0.05  | 0.09  |
| 7     | 0.66  | 0.47  | 0.39  | 0.42  | 0.37  | 0.32  | 0.61  | 0.21  |
| 8     | 0.08  | 0.03  | 0.03  | 0.04  | 0.03  | 0.09  | 0.09  | 0.14  |
| 9     | 0.07  | 0.33  | 0.25  | 0.26  | 0.23  | 0.07  | 0.10  | 0.14  |
| 10    | 0.07  | 0.04  | 0.03  | 0.03  | 0.03  | 0.09  | 0.10  | 0.11  |
| 11    | 0.49  | 0.22  | 0.18  | 0.19  | 0.18  | 0.33  | 0.33  | 0.08  |
| 12    | 0.06  | 0.04  | 0.04  | 0.04  | 0.04  | 0.06  | 0.05  | 0.11  |
| 13    | 0.46  | 0.17  | 0.15  | 0.15  | 0.14  | 0.33  | 0.33  | 0.11  |
| 14    | 0.08  | 0.04  | 0.04  | 0.04  | 0.04  | 0.09  | 0.07  | 0.08  |
| 15    | 0.07  | 0.22  | 0.21  | 0.19  | 0.18  | 0.10  | 0.09  | 0.14  |
| 16    | 0.06  | 0.05  | 0.04  | 0.04  | 0.04  | 0.08  | 0.07  | 0.08  |
| 17    | 0.18  | 0.35  | 0.31  | 0.27  | 0.24  | 0.31  | 0.38  | 0.42  |
| 18    | 0.07  | 0.05  | 0.04  | 0.04  | 0.04  | 0.06  | 0.04  | 0.07  |
| 19    | 0.13  | 0.28  | 0.27  | 0.25  | 0.25  | 0.20  | 0.24  | 0.45  |
| 20    | 0.07  | 0.05  | 0.04  | 0.05  | 0.04  | 0.05  | 0.04  | 0.06  |
| 21    | 0.10  | 0.56  | 0.48  | 0.48  | 0.47  | 0.06  | 0.05  | 0.05  |
| 22    | 0.08  | 0.05  | 0.05  | 0.05  | 0.05  | 0.04  | 0.03  | 0.04  |
| 23    | 0.15  | 0.31  | 0.25  | 0.25  | 0.22  | 0.16  | 0.18  | 0.14  |
| 24    | 0.07  | 0.05  | 0.05  | 0.04  | 0.04  | 0.03  | 0.03  | 0.04  |
| 25    | 0.13  | 0.20  | 0.17  | 0.16  | 0.14  | 0.12  | 0.13  | 0.14  |
| 26    | 0.08  | 0.04  | 0.04  | 0.04  | 0.03  | 0.03  | 0.02  | 0.04  |
| 27    | 0.07  | 0.18  | 0.15  | 0.14  | 0.13  | 0.03  | 0.02  | 0.03  |
| 28    | 0.07  | 0.04  | 0.04  | 0.03  | 0.03  | 0.03  | 0.02  | 0.04  |
| 29    | 0.21  | 0.18  | 0.16  | 0.15  | 0.13  | 0.09  | 0.10  | 0.12  |
| 30    | 0.05  | 0.05  | 0.05  | 0.04  | 0.04  | 0.02  | 0.02  | 0.03  |

|    |      |      |      |      |      |      |      |      |
|----|------|------|------|------|------|------|------|------|
| 31 | 0.10 | 0.20 | 0.17 | 0.16 | 0.14 | 0.08 | 0.09 | 0.08 |
| 32 | 0.04 | 0.06 | 0.05 | 0.05 | 0.05 | 0.02 | 0.01 | 0.03 |
| 33 | 0.04 | 0.26 | 0.22 | 0.20 | 0.17 | 0.02 | 0.02 | 0.03 |
| 34 | 0.03 | 0.05 | 0.05 | 0.05 | 0.04 | 0.02 | 0.01 | 0.03 |
| 35 | 0.05 | 0.23 | 0.18 | 0.17 | 0.15 | 0.06 | 0.07 | 0.08 |
| 36 | 0.03 | 0.05 | 0.05 | 0.04 | 0.04 | 0.02 | 0.01 | 0.02 |
| 37 | 0.08 | 0.59 | 0.60 | 0.50 | 0.50 | 0.06 | 0.06 | 0.06 |
| 38 | 0.03 | 0.06 | 0.06 | 0.05 | 0.05 | 0.01 | 0.01 | 0.02 |
| 39 | 0.04 | 0.42 | 0.37 | 0.34 | 0.32 | 0.02 | 0.01 | 0.02 |
| 40 | 0.03 | 0.06 | 0.06 | 0.05 | 0.05 | 0.01 | 0.01 | 0.03 |

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