

ISO 22829:2017-09 (E)

Resistance welding equipment - Transformers - Integrated transformer-rectifier units for welding guns operating at 1 000 Hz

| Contents | | Page |
|--|---|-------------|
| Foreword | | iv |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Terms and definitions | 1 |
| 4 | Power supply to the transformer-rectifier unit | 1 |
| 5 | Transformer types | 2 |
| 6 | Dimensions | 2 |
| 7 | Additional equipment | 3 |
| 7.1 | Grounding provision | 3 |
| 7.2 | Thermal protection | 3 |
| 7.3 | Output current sensing coil | 3 |
| 7.4 | Output voltage sensing wires | 3 |
| 8 | Protection of the rectifier | 3 |
| 9 | Marking | 3 |
| 9.1 | Primary | 3 |
| 9.2 | Output terminals | 3 |
| 9.3 | Rating plate | 4 |
| 10 | Designation | 4 |
| 11 | Test conditions | 4 |
| 11.1 | Type tests | 4 |
| 11.2 | Routine tests | 5 |
| 11.3 | Test procedures | 5 |
| 11.3.1 | General visual examination | 5 |
| 11.3.2 | Open-circuit tests | 5 |
| 11.3.3 | Minimum output current under load condition | 5 |
| 11.3.4 | Cooling circuit test | 5 |
| 11.3.5 | Dynamic behaviour of the output terminals | 5 |
| 11.3.6 | Mechanical strength | 7 |
| Annex A (informative) Relationship between output current and duty factor | | 8 |
| Annex B (normative) Dimensions of transformers | | 9 |
| Bibliography | | 15 |