DC Surge Protective Device

# SLP30-DC65/2(S)

Class II • Type 2

Location of Use: String box, Inverter
Network Systems: (DC+/-)-PE, (DC-/+)-PE
Surge Ratings: $I_n$ = 15 kA (8/20 µs)
$I_{total}$ = 30 kA (8/20 µs)
IEC/EN Category: Class II / Type 2
Protective Elements: High Energy MOV
Housing: Pluggable Design
Compliance: IEC/EN 61643-41

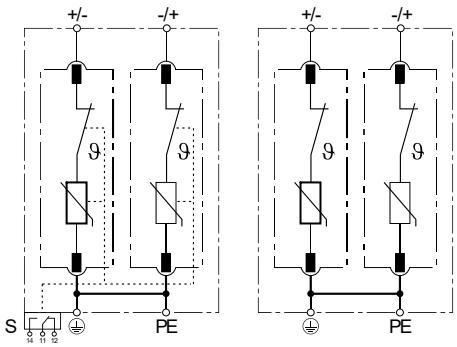
## Technical Data

| SLP30-DCxxx/2(S) | | 65 |
|---|---|---|
| **IEC Electrical** | | |
| Rated Operational DC Voltage | $U_o$ / $U_n$ | 48 Vdc |
| Maximum Continuous Operating DC Voltage (DC+)-PE, (DC-)-PE | $U_{cdc}$ | 65 V |
| Nominal Discharge Current (8/20 µs) | $I_n$ | 15 kA |
| Total Discharge Current (8/20 µs) | $I_{total}$ | 30 kA |
| Maximum Discharge Current (8/20 µs) | $I_{max}$ | 30 kA |
| Voltage Protection Level (DC+)-PE, (DC-)-PE | $U_p$ | 0.3 kV |
| Residual Current at $U_{cdc}$ | $I_{PE}$ | < 0.5 mA |
| Response Time | $t_A$ | < 25 ns |
| Number of Ports | | 1 |
| **Mechanical & Environmental** | | |
| Operating Temperature Range | $T_a$ | -40 °F to +158 °F [-40 °C to +70 °C] |
| Permissible Operating Humidity | RH | 5% to 95% |
| Atmospheric Pressure and Altitude | | 80 kPa to 106 kPa / -500 m to 2000 m |
| Terminal Screw Torque | $M_{max}$ | 39.9 lbf·in [4.5 Nm] |
| Conductor Cross Section (max.) | | 2 AWG (Solid, Stranded) / 4 AWG (Flexible) |
| | | 35 mm² (Solid, Stranded) / 25 mm² (Flexible) |
| Mounting | | 35 mm DIN Rail, EN 60715 |
| Degree of Protection | | IP20 (built-in) |
| Housing Material | | Thermoplastic: Extinguishing Degree UL 94 V-0 |
| Thermal Protection | | Yes |
| Operating State / Fault Indication | | Green ok / Red defect |
| Remote Contacts (RC) | | Optional |
| RC Switching Capacity | | AC: 250 V / 0.5 A; DC: 250 V / 0.1 A; 125 V / 0.2 A; 75 V / 0.5 A |
| RC Conductor Cross Section (max.) | | 16 AWG (Solid) / 1.5 mm² (Solid) |
| **Order Information** | | |
| Ordering Code | | 65 |
| SLP30-DCxxx/2 | | 3006521 |
| SLP30-DCxxx/2S (with remote contacts) | | 3006522 |
| SLP30-DCxxx/0 (spare modules) | | 3006501 |

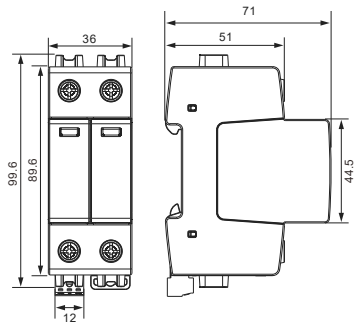
## Internal Configuration

Legend

- ⏚ PE/G Conductor Terminal
- S Signalling Contacts Optional



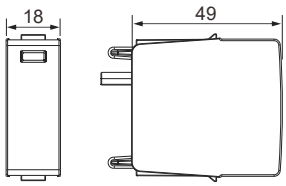

## Dimensions & Packaging

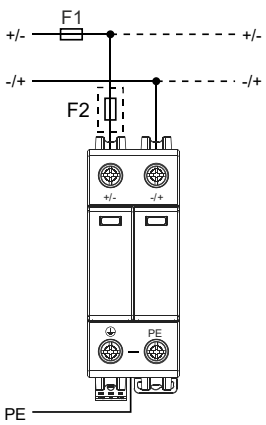



[mm]

| Complete Unit | |
|---|---|
| SLP30-DCxxx/2(S) | 65 |
| DIN 43880 Dimension | 1 CTN |
| Packaging Dimensions (H x W x L) | [260 × 220 × 330 mm] |
| Standard Order Quantity | 48 Units |

## Spare Plug




| Single Unit | |
|---|---|
| SLP30-DCxxx/0 | 65 |
| DIN 43880 Dimension | 1 CTN |
| Packaging Dimensions (H x W x L) | [260 × 220 × 330 mm] |
| Standard Order Quantity | 120 Units |

## Connection Diagram