

Comparison of PoE parameters

Property	802.3af (802.3at Type 1) "PoE"	802.3at Type 2 "PoE+"	802.3bt Type 3 "4PPoE"	802.3bt Type 4
Power available at PD	12.95 W	25.50 W	51 W	71 W
Maximum power delivered by PSE	15.40 W	30.0 W	60 W	100 W
Voltage range (at PSE)	44.0–57.0 V	50.0–57.0 V	50.0–57.0 V	52.0–57.0 V
Voltage range (at PD)	37.0–57.0 V	42.5–57.0 V	42.5–57.0 V	41.1–57.0 V
Maximum current I_{\max}	350 mA	600 mA	600 mA per pair	960 mA per pair
Maximum cable resistance per pairset	20 Ω (Category 3)	12.5 Ω	12.5 Ω	12.5 Ω
Power management	Three power class levels negotiated by signature	Four power class levels negotiated by signature or 0.1 W steps negotiated by LLDP	Three power class levels negotiated by signature or 0.1 W steps negotiated by LLDP	0.1 W steps negotiated by LLDP
Derating of maximum cable ambient operating temperature	None	5 °C (9 °F) with one mode (two pairs) active	10 °C (20 °F) with more than half of bundled cables pairs at I_{\max}	10 °C (20 °F) with temperature planning required
Supported cabling	Category 3 and Category 5	Category 5	Category 5	Category 5
Supported modes	Mode A (endspan), Mode B (midspan)	Mode A, Mode B	Mode A, Mode B, 4-pair mode	4-pair mode