

Dual Input/Multi Output (DIMO)

Field Wiring Terminals

The Dual Input/ Multi Output (DIMO) Field Wiring Terminals are efficient, compact, and cost-effective methods of providing power backup and maintaining high network availability. They can be used to offer redundancy from legacy installations or to offer redundant power backup for legacy equipment.



DIMO Field Wiring Terminals:

Offer dual inputs to connect to two separate power sources and up to four power

Many of the previously installed equipment, such as network switches and appliances, were placed in mission critical networks but did not feature dual-power inputs. The DIMO Field Wiring Terminals provide dual power supplies for up to four devices. If one power source connected to one of the DIMO's dual power inputs is interrupted, the DIMO auto-senses this and instantly switches on power input through the other independent power input. This ensures uninterrupted power supply to the end devices. The DIMO Field Wiring Terminal can also withstand surges up to 5kV.



Support PoE+ (IEEE 802.1at) and PoE (IEEE 802.1af)

These days critical infrastructure facilities are at risk. This makes providing redundant power inputs to the Power over Ethernet (PoE) switches that power the surveillance cameras of different facilities to stay up and running. The DIMO Field Wiring Terminals offer PoE security and surveillance applications.

- Have ruggedized, compact design for operating in extreme environments with temperature ranging from -40 deg. Cel. To +85 deg. Cel. Maximum wattage on each output 100 Watts
- The DIMO Field Wiring Terminals are designed with advanced thermal properties. Some of its models can operate in temperatures ranging from -40°C to +85°C and include convection cooling that ensures longer life and resistance against contaminants, such as dirt and dust. These features of the DIMO Terminals make them very suitable for industrial and utility settings where uptime is critical. The DIMO Terminals ability to perform well in extreme temperatures along with their compact size also makes them suitable for outdoor locations and for enclosures where there are drastic temperature changes.
- Support both high and low power ranges of 12, 24/28, 48/55, 110, 125, 150, or 250 VDC
- Can be mounted on DIN-Rail, panel or tray
- Are rigorously tested and meet all compliance industry standards of safety, emission, shock, and vibration along with industry specific compliances, such as DNV, CE, and NEBS

Specifications for DIMO Field Wiring Terminals

DIMO Field Wiring Terminals ensure high availability and are ideal for mission critical networks. Table 1. Lists the specifications for DIMO Terminals.

Table 1: Specifications for DIMO Field Wiring Terminals



Parameter	Specifics
Power Input Model	Power input: Dual redundant power inputs for dual power supplies
Options	DIMO-12VDC: Low input voltage range (12VDC) with polarity 200 watts max total power (50 watts
	per each terminal output)
	DIMO-24VDC: Low input voltage range (24/28VDC) with polarity 400 watts max total power (100
	watts per each terminal output)
	DIMO-48VDC: Low input voltage range (48/55VDC) w/polarity 400 watts max total power (100
	watts per each terminal output)
	DIMO-HI: High input voltage range (110/125/150/250 VDC) w/polarity 400 watts max total power
	(100 watts per each terminal output
Environmental	Operating temperature: -40°C to +85°C continuously
	[guaranteed cold (-40°C) and hot (85°C) starts]
	Storage temperature for all models: -45°C to +90°C
	Humidity: 5 to 95% RH (non-condensing)
	MTBF: > 219,000 hours at 50°C
	Altitude: 19,000 ft. (6,000m)
	Industrial surge and spike protection: 5kV peak (8/20µs)
	Optional Conformal Coating available on request
Mounting	DIN-Rail mount as seen in Figure 3 Figure 3: DIN Rail Mount
	Panel mount
	Tray mount (up to three units may fit in tray),
	sold separately
Standards and Compliance	Safety: UL/CSA/EN/IEC 60950-1, 2nd Edition CB report
	Emissions: EN/ETSI 300-386; FCC Part 15
	EN55022,24; AN/NZ CISPR22, VCCI, EN61000-6-4 Class A
	CFR 47-FCC part 15, ICES 003, Class A
	Hazardous Locations: UL/cUL Class 1 Div 2; ATEX Zone 2
	IEC 61850 EMC & Environmental Operating Conditions Class C for Power Utility substations
	(KEMA)
	IEEE 1613 Class 2 Environmental Standard for Power Utility Substations
	NEMA TS-2 & TEES for DC- and PoE-powered traffic control equipment
Product Specifications	Military: MIL-STD-810G
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Toduct Specifications	Marine: DNV

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	Telecom: NEBS, GR63 & GR1089, L3; ETSI 300 386, EN 301 489			
	Railways: EN50155 and EN50121-4 Compliant			
	Vibration: IEC 60068-2-6			
	Shock: IEC 60068-2-27			
	Freefall: IEC 60068-2-32			
	RoHS (Pb free) and WEEE compliant			
	Immunity:			
	EN61000-4-2 (ESD) Level 4; EN61000-4-3 (RFI) Level 4			
	EN61000-4-4 (EFT) Level 4; EN61000-4-5 (Surge) Level 4			
	EN61000-4-6 (C. Susceptibility) Level 3			
	EN61000-4-8 (PF Magnetic Field) Level 4			
	□ EN61000-4-10 (Damp Osc.) Level 4			
	□ EN61000-4-11 (VDI) Class 3			
	EN61000-4-12 (Osc. Wave Im.) Level 3			
	EN61000-4-16 (I.C. CMD) Level 3			
	EN61000-4-29 VDSI on DC Input			
	EN61000-6-2; EN61000-6-5 DT&T-NL, Immunity PS&SS			
Mechanical	Case: Ready to be DIN rail or panel mounted			
	Material: Corrosion-resistant steel with powder coating			
	Dimensions:			
	□ Width: 4.8 in (12.1 cm)			
	□ Height: 1.7 in (4.3 cm)			
	□ Depth: 4.2 in (10.7 cm)			
	Depth w/retainer brkt: 4.5 in (11.4 cm)			
IP Rating	IP42 (IEC 529, NEMA 250)			
Warranty	5 years			
Made in	USA			