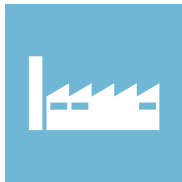
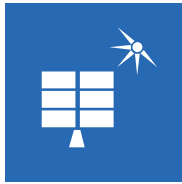


Solar duty transformers



Description

Eaton's solar duty transformers are designed for use in the renewable energy market and are rated for bidirectional use to allow power to flow to or from the electrical grid. These units are specifically designed for situations where voltage adjustments are required between the PV array, end user and the utility. Eaton's transformer solutions for renewable energy applications help make solar power generation a reality in utility and commercial applications.

Standard features

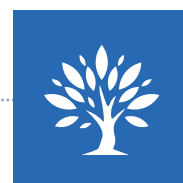
- Three-phase
- 150 °C temperature rise
- Aluminum windings
- Bidirectional
- DOE 2016 efficiency compliant
- NEMA® Type 2 enclosure
- 15–300 kVA
- UL Listed

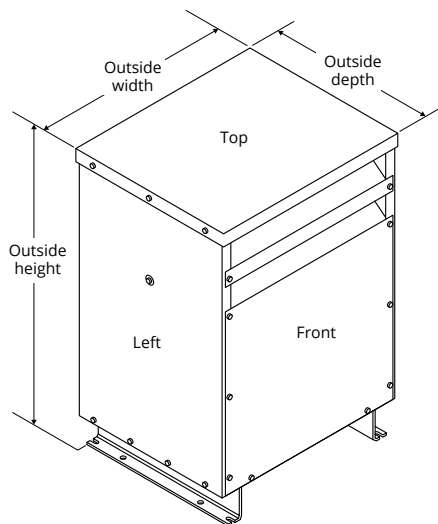
Options/accessories

- Alternate primary and secondary voltages
- Low temperature rise: 115 °C, 80 °C
- Copper windings
- K-factor designs for nonlinear loads: K4, K9, K13, K20
- Totally enclosed, non-ventilated enclosures rated NEMA 3R, 12, 4 and 4X
- Weathershields for NEMA Type 3R applications



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Product dimensions in inches (mm)

Frame	Height	Width	Length
FR939	28.00 (711.0)	21.88 (556.0)	17.75 (451.0)
FR940	36.88 (937.0)	24.88 (632.0)	21.13 (537.0)
FR942	43.00 (1092.0)	30.50 (775.0)	24.00 (610.0)
FR943	51.00 (1295.0)	34.50 (876.0)	31.50 (800.0)
FR944	60.00 (1524.0)	38.00 (965.0)	33.70 (856.0)
FR945	66.18 (1681.0)	42.18 (1071.0)	33.50 (851.0)

Product specifications

Catalog number	kVA	Temperature rise	Frame	Weight in lb (kg)
Three-phase—60 Hz DOE 2016 energy-efficient—aluminum windings—480 V to 208Y/120 V				
V48M28T1516PV	15	150 °C	FR939	258 (117)
V48M28T3016PV	30	150 °C	FR940	434 (197)
V48M28T4516PV	45	150 °C	FR940	460 (209)
V48M28T7516PV	75	150 °C	FR942	636 (288)
V48M28T1216PV	112.5	150 °C	FR943	1050 (476)
V48M28T4916PV	150	150 °C	FR943	1195 (542)
V48M28T2216PV	225	150 °C	FR944	1642 (745)
V48M28T3316PV	300	150 °C	FR945	2271 (1030)
Three-phase—60 Hz DOE 2016 energy-efficient—copper windings—480 V to 208Y/120 V				
V48M28T1516PVCU	15	150 °C	FR939	343 (156)
V48M28T3016PVCU	30	150 °C	FR940	498 (226)
V48M28T4516PVCU	45	150 °C	FR940	476 (216)
V48M28T7516PVCU	75	150 °C	FR942	762 (346)
V48M28T1216PVCU	112.5	150 °C	FR943	1425 (646)
V48M28T4916PVCU	150	150 °C	FR943	1778 (806)
V48M28T2216PVCU	225	150 °C	FR944	2386 (1082)
V48M28T3316PVCU	300	150 °C	FR945	2622 (1189)

For additional primary and secondary voltage options, see Bid Manager or contact the Flex Center at DTDTFlex@eaton.com.

For more information, contact the Flex Center at DTDTFlex@eaton.com.