

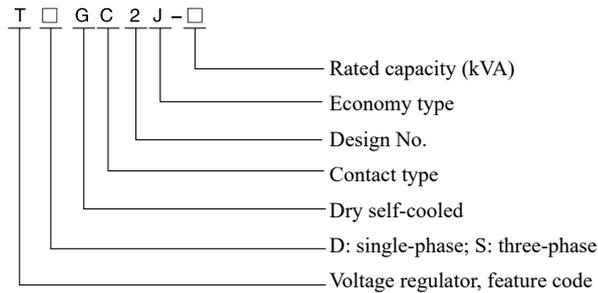
T_S^DGC₂ and T_S^DGC₂J Series Voltage Regulator



1 Product overview

T_S^DGC₂ and T_S^DGC₂J series voltage regulator is a dry self-cooled and automatic coupling voltage regulator that can be widely used in many industries such as metallurgy, chemicals, instruments and apparatus, electromechanical manufacturing, light and textile industry, electromechanical manufacturing, and scientific experiment to achieve voltage regulation, temperature control, speed control, and light dimming.

2 Type designation



3 Product parameters

Model	Rated capacity (kVA)	Number of phases	Rated frequency (Hz)	Rated input voltage (V)	Output voltage range (V)	Rated output current (A)
TDGC ₂ -0.2	0.2	1	50	220	0~250	0.8
TDGC ₂ -0.5	0.5					2
TDGC ₂ -1	1					4
TDGC ₂ -2	2					8
TDGC ₂ -3	3					12
TDGC ₂ -5	5					20
TDGC ₂ J-5	5					20
TDGC ₂ J-7	7					28
TDGC ₂ -10	10					40
TDGC ₂ J-10	10					40
TDGC ₂ -15	15					60
TDGC ₂ J-15	15					60
TDGC ₂ -20	20					80
TDGC ₂ J-20	20	80				
TDGC ₂ -30	30	120				
TDGC ₂ J-30	30	120				
TDGC ₂ J-40	40	160				
TDGC ₂ J-50	50	200				
TSGC ₂ -1.5	1.5	3	50	380	0~430	2
TSGC ₂ -3	3					4
TSGC ₂ -6	6					8
TSGC ₂ -9	9					12
TSGC ₂ -15	15					20
TSGC ₂ J-15	15					20
TSGC ₂ J-20	20					27
TSGC ₂ -30	30					40
TSGC ₂ J-30	30					40
TSGC ₂ J-40	40	54				
TSGC ₂ J-50	50	67				

Note: Customized; the rated output voltage range 0 ~ 300V of single-phase voltage regulator is available, and the rated voltage range 0~500V of three-phase voltage regulator is available; with the capacity unchanged and volume unchanged, the rated output current is correspondingly reduced.

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4 Normal working conditions and installation conditions

- 4.1 Ambient temperature:
 Max. temperature: +40 °C
 Mean temperature of air of the hottest month: +30 °C ;
 Highest yearly mean temperature of air: +20 °C ;
 Minimum air temperature: -5 °C
- 4.2 Altitude:
 Altitude does not exceed 1000m.
- 4.3 Atmospheric condition:
 The mean relative humidity of the wettest month does not exceed 90%, and the mean minimum temperature of this month is +25 °C
- 4.4 Symmetry of three-phase power voltage:
 For three-phase voltage regulator, its three-phase power voltages are symmetrical appropriately.
- 4.5 Power voltage waveform:
 The power voltage waveform is sine wave or near-sinusoidal.
- 4.6 Installation environment:
 Indoors;
 No in-parallel is allowed;
 The installation (placement) site shall be free of serious vibration or jounce, and there is no gas, steam, chemical deposition, dust, dirt and other explosive or corrosive medium that seriously affect the insulation of voltage regulator.
- 4.7 Special working conditions failed to following the above regulations will be agreed and determined by the use unit and manufacturer.

5 Structure features

This product features with non-distortion of waveform, small size, light weight, high efficiency, convenient use, reliable operation, and long-term operation, and is an ideal AC voltage-regulating power supply.

6 Outline and installation dimensions

- 6.1 The outline dimensions of TDGC₂ sees Fig. 1;
 6.2 The outline dimensions of TDGC₂J sees Fig. 2;
 6.3 The outline dimensions of TSGC₂ sees Fig. 3;
 6.4 The outline dimensions of TSGC₂J sees Fig. 4;

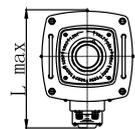
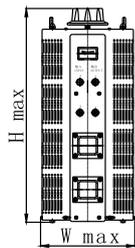


Fig. 1

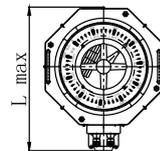
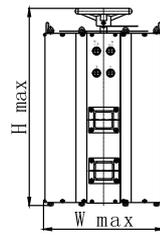


Fig. 2

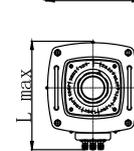
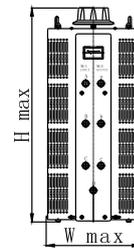


Fig. 3

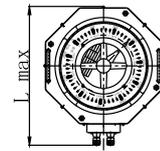
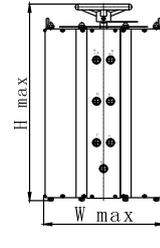


Fig. 4

T₃GC₂ and T₃GC₂J Series Voltage Regulator



Specifications, outline dimensions and weight

Model	Dimensions (mm) (L x W x H)	Weight (kg)	Model	Dimensions (mm) (L x W x H)	Weight (kg)	Model	Dimensions (mm) (L x W x H)	Weight (kg)
TDGC ₂ -0.2	130×110×130	2.3	TDGC ₂ J-5	375×350×245	21	TSGC ₂ J-15	395×350×580	64
TDGC ₂ -0.5	150×130×140	3.3	TDGC ₂ J-7	375×350×245	26	TSGC ₂ J-20	405×350×580	75.5
TDGC ₂ -1	200×170×170	5.8	TDGC ₂ J-10	410×350×418	46	TSGC ₂ J-30	420×350×1080	132
TDGC ₂ -2	200×190×180	7.9	TDGC ₂ J-15	420×350×580	66	TSGC ₂ J-40	420×350×1080	147
TDGC ₂ -3	230×200×200	10.4	TDGC ₂ J-20	420×350×750	90	TSGC ₂ J-50	440×350×1180	149
TDGC ₂ -5	270×240×270	14.9	TDGC ₂ J-30	420×350×1080	135			
TDGC ₂ -10	310×240×410	30.8	TDGC ₂ J-40	420×350×1080	151			
TDGC ₂ -15	310×240×570	47	TDGC ₂ J-50	440×350×1180	160			
TDGC ₂ -20	310×240×760	62						
TDGC ₂ -30	310×240×1090	96						
TSGC ₂ -1.5	170×130×330	9.6						
TSGC ₂ -3	250×180×420	18.5						
TSGC ₂ -6	250×200×430	24.2						
TSGC ₂ -9	270×210×480	31.5						
TSGC ₂ -15	310×240×570	45						
TSGC ₂ -30	310×240×1090	93						

7 Order Information

- 7.1 Product name: Voltage regulator
- 7.2 Product mode: TDGC2-10.
- 7.3 Rated input voltage: 220V
- 7.4 Output voltage range: 0~250V.
- 7.5 Output capacity: 10kVA.
- 7.6 Order quantity: 5