







































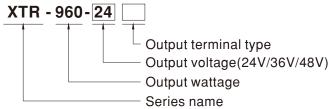


- Three-Phase 320 ~ 600Vac wide range input (Dual phase operation possible)
- Global certificates in multi-fields(ITE 62368-1,Industrial) 61558-1/-2-16,61010) & Marine DNV, SEMI47, C1D2 HazLog approved
- · 96mm Ultra slim width
- High efficiency up to 96% and no load power dissipation<3.1W by R.C.</li>
- 200% Peak Power capability
- · Built-in constant current limiting circuit
- Current sharing up to 3840W(3+1) for parallel use
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Fanless design, cooling by free air convection
- Over voltage category III (OVC III)
- -40~+85°C wide range operation temperature (>+60°C derating)
- Operating altitude up to 5000 meters
- Built-in Remote ON/OFF Control and DC OK relay contact
- Ultra low inrush current < 10A</li>
- Built-in ORing FET
- Tool free terminal block (LA type)
- Conformal coating
- Can be installed on DIN Rail TS-35/7.5 or 15
- 5 years warranty

#### Description

The XTR-960 series is a 960W AC/DC 3Ø 320~600Vac input ultra slim industrial high-reliability DIN rail power. Key featu<mark>res of t</mark>his series include a narrow 96 mm casing, optimizing system installation space, it boasts a maximum efficiency of 96% and a low standby power consumption <3.1W by remote control for energy savings and carbon reduction. It provides constant current with up to 200% peak power; fanless design , ultra-wide operating temperature range of -40 to +85 $^\circ{
m C}$  (up to +60 $^\circ{
m C}$  at full load); OVCIII compliance; parallel function capability up to 3840W; ultra-low inrush current of <10A; built-in Remote Control, DC OK and ORing FET; internal PCB coating offers basic moisture and dust protection, and it has multiple terminal blocks for selection. With comprehensive protection functions, complete safety certifications, and a 5-years warranty, the XTR-960 series is a compact, high-performance, and highly reliable DIN rail power supply.

## Model Encoding



Terminal Type Options Note				
Blank	Screw Terminal		In stock	
Біатк	Corew Terrimian		III Stook	
LA	Lever-Actuated	Ban	In stock	
PI	Push In	len-len-	In stock	

## Applications

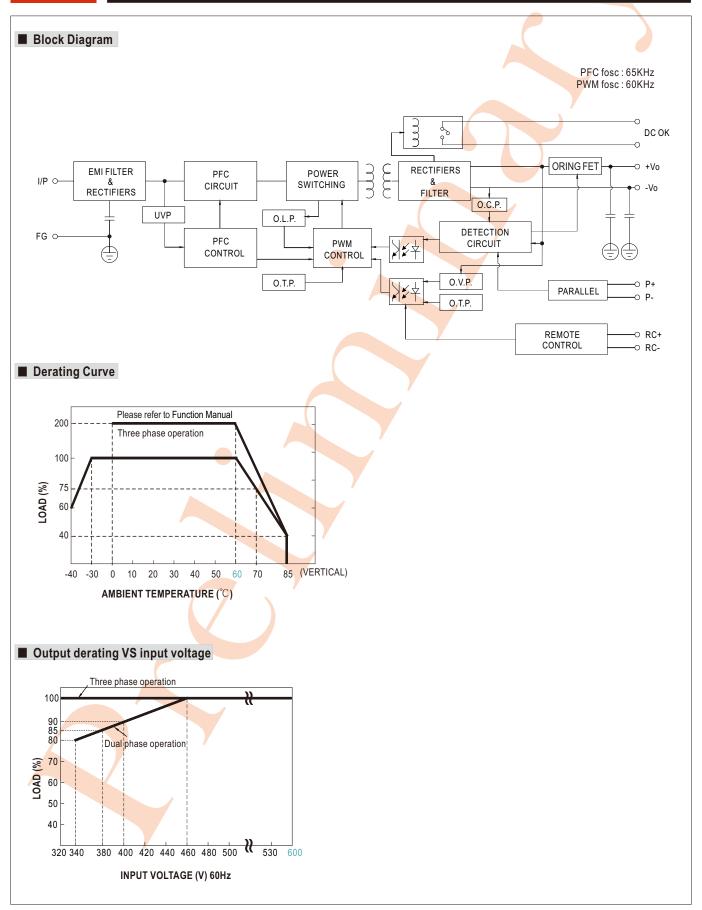
- Industrial control system
- Semiconductor fabrication equipment
- Factory automation
- Electro-mechanical apparatus

### **GTIN CODE**

MW Search: https://www.meanwell.com/serviceGTIN.aspx



		XTR-960-24	XTR-960-36□	XTR-960-48		
	DC VOLTAGE	□=Blank, LA, PI 24V	36V	48V		
	RATED CURRENT	40A	26.66A	20A		
	CURRENT RANGE	0 ~ 40A	0 ~ 26.66A	0 ~ 20A		
	RATED POWER	960W	957.6W	960W		
	PEAK CURRENT(5 sec.)	80A	53.3A	40A		
	POWER(5 sec.)	1920W	1918.8W	1920W		
OUTPUT	RIPPLE & NOISE (max.) Note.2	120mVp-p	150mVp-p	150mVp-p		
JUIFUI	VOLTAGE ADJ. RANGE	24 ~ 29V	36 ~ 42V	48 ~ 55V		
	VOLTAGE TOLERANCE Note.3		±1.0%	±1.0%		
		±0.5%	±0.5%	±0.5%		
	LINE REGULATION					
	LOAD REGULATION	±1.0%	±1.0%	±1.0%		
	SETUP, RISE TIME	800ms, 60ms/400Vac 600ms, 60ms/	500Vac at full load			
	HOLD UP TIME (Typ.)	20ms / 400Vac 20ms / 500Vac at full	load			
	VOLTAGE RANGE Note.4	Three-Phase 320 ~ 600Vac (Dual phase o	peration possible) 450 ~ 800 Vdc			
	NO LOAD Remote Power OFF	3.1W/400Vac	3.1W/400Vac	3.1W/400Vac		
	CONSUMPTION(Typ.) Remote Power ON		6.1W/400Vac	6.1W/400Vac		
	FREQUENCY RANGE	47 ~ 63Hz	0.1VV/400Vd0	0.11174001400		
			(6.11)			
NPUT	POWER FACTOR (Typ.)	PF≥0.92/400Vac PF≥0.92/500Vac at				
	EFFICIENCY (Typ.)	95%	95.5%	96%		
	AC CURRENT (Typ.)	2A/400Vac 1.4A/500Vac				
	INRUSH CURRENT (Typ.)	COLD START 10A/500Vac		Ψ		
	LEAKAGE CURRENT	<3.5mA / 530Vac				
		105%~200% rated output power for more th	an 5 sec then constant current limit	ing without shutdown at rate curre	ent when Vo=30%~1	
	OVERLOAD	Hiccup mode when Vo<30% rated voltage				
DOTECTION		30 ~ 35V		EG - GEV		
ROTECTION	OVER VOLTAGE		43 ~ 50V	56 ~ 65V		
		Protection type: Shut down o/p voltage,				
	OVER TEMPERATURE	Shut down o/p voltage or hiccup mode, re-		ature goes down		
	PARALLEL	Up to 3840W (3+1), please refer to Fund	ction Manual for more details			
UNIOTION	DC OK RELAY CONTACT	Relay Contact Ratings (max.):30Vdc/1A,	30Vac/0.5A resistive load			
UNCTION		Power ON : RC +~ RC- open or keep 2~5Vdc				
	REMOTE CONTROL	Power OFF: RC + ~ RC- open or keep 2~5 Vdc  Power OFF: RC + ~ RC- short or keep < 0.5 Vdc				
	WORKING TEMP		0.0 v d 0			
	WORKING TEMP. Note.5	7				
WORKING HUMIDITY		20 ~ 95% RH non-condensing				
NVIRONMENT	STORAGE TEMP., HUMIDITY		ng			
NVIRONMENT	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS	±0.03%/°C (0 ~ 60°C) Component:10 ~ 500Hz, 2G 10min./1cycl UL121201/CSA C22.2 NO.213.17 Class I BS EN/EN61558-1/-2-16,BS EN/EN61010	e, 60min. each along X, Y, Z axes; , Div. 2 Group A, B, C, D Hazardou 0;CB IEC62368-1,IEC61558-1,IEC	Locations T4; UL61010; TUV	BS EN/EN62368-1,	
NVIRONMENT	TEMP. COEFFICIENT VIBRATION	±0.03%/°C (0 ~ 60°C)  Component: 10 ~ 500Hz, 2G 10min./1cycl  UL121201/CSA C22.2 NO.213.17 Class I BS EN/EN61558-1/-2-16,BS EN/EN61011 BSMI CNS15598-1;CCC GB4943.1;EAC KC KC62368-1 and BIS IS13252 (Part 1): IEC/EN 61558-1/-2-16 (OVC III, altitude up IEC/EN/UL 61010 (OVC III, altitude up IEC/EN 62368-1 (OVC III, altitude up	e, 60min. each along X, Y, Z axes; , Div. 2 Group A, B, C, D Hazardou D;CB IEC62368-1,IEC61558-1,IEC TPTC004 approved; 2010 certified, no stock ,contact so to 2000m ) to 5000m )	us Locations T4; UL61010; TUV C61010; RCM AS/NZS 62368-1,	/ BS EN/EN62368-1	
ENVIRONMENT	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS OVER VOLTAGE CATEGORY	±0.03%/°C (0 ~ 60°C)  Component:10 ~ 500Hz, 2G 10min./1cycl  UL121201/CSA C22.2 NO.213.17 Class I  BS EN/EN61558-1/-2-16,BS EN/EN61011  BSMI CNS15598-1;CCC GB4943.1;EAC  KC KC62368-1 and BIS IS13252 (Part 1):  IEC/EN 61558-1/-2-16 (ΟVC III, altitude up  IEC/EN/UL 61010 (ΟVC II, altitude up	e, 60min. each along X, Y, Z axes; , Div. 2 Group A, B, C, D Hazardou D;CB IEC62368-1,IEC61558-1,IEC TPTC004 approved; 2010 certified, no stock ,contact so to 2000m ) to 5000m )	us Locations T4; UL61010; TUV C61010; RCM AS/NZS 62368-1,	/ BS EN/EN62368-1	
NVIRONMENT	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS  OVER VOLTAGE CATEGORY Note.6  SAFETY EXTRA-LOW	±0.03%/°C (0 ~ 60°C)  Component: 10 ~ 500Hz, 2G 10min./1cycl  UL121201/CSA C22.2 NO.213.17 Class I BS EN/EN61558-1/-2-16,BS EN/EN61010 BSMI CNS15598-1;CCC GB4943.1;EAC  KC KC62368-1 and BIS IS13252 (Part 1):  IEC/EN 61558-1/-2-16 (OVC III, altitude up IEC/EN/UL 61010 (OVC II, altitude up IEC/EN 62368-1 (OVC III, altitude up IEC/EN 61558-2-16 (SELV) IEC/EN/UL 61010-2-201 (SELV)	e, 60min. each along X, Y, Z axes; , Div. 2 Group A, B, C, D Hazardou 0;CB IEC62368-1,IEC61558-1,IEC TPTC004 approved; 2010 certified, no stock ,contact s 0 to 2000m ) 0 to 5000m )	us Locations T4; UL61010; TUV C61010; RCM AS/NZS 62368-1, ale for inquires	/ BS EN/EN62368-1	
NVIRONMENT	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS  OVER VOLTAGE CATEGORY Note.6  SAFETY EXTRA-LOW VOLTAGE (SELV)	±0.03%/°C (0 ~ 60°C)  Component:10 ~ 500Hz, 2G 10min./1cycl  UL121201/CSA C22.2 NO.213.17 Class I BS EN/EN61558-1/-2-16,BS EN/EN61011 BSMI CNS15598-1;CCC GB4943.1;EAC KC KC62368-1 and BIS IS13252 (Part 1): IEC/EN 61558-1/-2-16 (OVC III, altitude up IEC/EN/UL 61010 (OVC III, altitude up IEC/EN 62368-1 (OVC III, altitude up IEC/EN 61558-2-16 (SELV) IEC/EN/UL 61010-2-201 (SELV) IEC/EN 62368-1 (SELV/ES1) I/P-O/P:4.87KVac //P-FG:2.5KVac O	e, 60min. each along X, Y, Z axes; , Div. 2 Group A, B, C, D Hazardou 0;CB IEC62368-1,IEC61558-1,IEC TPTC004 approved; 2010 certified, no stock ,contact s 0 to 2000m ) 0 to 5000m ) 0 to 5000m )	us Locations T4; UL61010; TUV C61010; RCM AS/NZS 62368-1, ale for inquires	/ BS EN/EN62368-1	
NVIRONMENT	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS  OVER VOLTAGE CATEGORY Note.6  SAFETY EXTRA-LOW VOLTAGE (SELV) WITHSTAND VOLTAGE	±0.03%/°C (0 ~ 60°C)  Component:10 ~ 500Hz, 2G 10min./1cycl  UL121201/CSA C22.2 NO.213.17 Class I BS EN/EN61558-1/-2-16,BS EN/EN61011 BSMI CNS15598-1;CCC GB4943.1;EAC KC KC62368-1 and BIS IS13252 (Part 1):  IEC/EN 61558-1/-2-16 (OVC III, altitude up IEC/EN/UL 61010 (OVC III, altitude up IEC/EN 62368-1 (OVC III, altitude up IEC/EN/UL 61010-2-201 (SELV) IEC/EN/UL 61010-2-201 (SELV) IEC/EN 62368-1 (SELV/ES1)	e, 60min. each along X, Y, Z axes; , Div. 2 Group A, B, C, D Hazardou 0;CB IEC62368-1,IEC61558-1,IEC TPTC004 approved; 2010 certified, no stock ,contact s 0 to 2000m ) 0 to 5000m ) 0 to 5000m )	us Locations T4; UL61010; TUV C61010; RCM AS/NZS 62368-1, ale for inquires	/ BS EN/EN62368-1 AS/NZS 61558-1/-2	
VIRONMENT	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS  OVER VOLTAGE CATEGORY Note.6  SAFETY EXTRA-LOW VOLTAGE (SELV) WITHSTAND VOLTAGE	±0.03%/°C (0 ~ 60°C)  Component:10 ~ 500Hz, 2G 10min./1cycl  UL121201/CSA C22.2 NO.213.17 Class I BS EN/EN61558-1/-2-16,BS EN/EN61011 BSMI CNS15598-1;CCC GB4943.1;EAC KC KC62368-1 and BIS IS13252 (Part 1): IEC/EN 61558-1/-2-16 (OVC III, altitude up IEC/EN/UL 61010 (OVC III, altitude up IEC/EN 62368-1 (OVC III, altitude up IEC/EN 62368-1 (SELV) IEC/EN/UL 61010-2-201 (SELV) IEC/EN 62368-1 (SELV/ES1) I/P-O/P:4.87KVac I/P-FG:2.5KVac O. I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 5	e, 60min. each along X, Y, Z axes; , Div. 2 Group A, B, C, D Hazardou 0;CB IEC62368-1,IEC61558-1,IEC TPTC004 approved; 2010 certified, no stock ,contact s 0 to 2000m) 0 to 5000m) 0 to 5000m) /P-FG:0.5KVac O/P-DC OK:0.5I	us Locations T4; UL61010; TUV C61010; RCM AS/NZS 62368-1,/ ale for inquires	/ BS EN/EN62368-1 AS/NZS 61558-1/-2	
VIRONMENT	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS  OVER VOLTAGE CATEGORY Note.6  SAFETY EXTRA-LOW VOLTAGE (SELV)  WITHSTAND VOLTAGE ISOLATION RESISTANCE	±0.03%/°C (0 ~ 60°C)  Component: 10 ~ 500Hz, 2G 10min./1cycl  UL121201/CSA C22.2 NO.213.17 Class I BS EN/EN61558-1/-2-16,BS EN/EN61011 BSMI CNS15598-1;CCC GB4943.1;EAC KC KC62368-1 and BIS IS13252 (Part 1): IEC/EN 61558-1/-2-16 (OVC III, altitude up IEC/EN/UL 61010 (OVC III, altitude up IEC/EN 62368-1 (OVC III, altitude up IEC/EN/UL 61010-2-201 (SELV) IEC/EN/UL 61010-2-201 (SELV) IEC/EN/UL 61010-2-201 (SELV) IEC/EN 62368-1 (P-FG:2.5KVac O) I/P-O/P:4.87KVac I/P-FG:2.5KVac O) I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 5  Parameter Conducted	e, 60min. each along X, Y, Z axes; , Div. 2 Group A, B, C, D Hazardou D;CB IEC62368-1,IEC61558-1,IEC TPTC004 approved; 2010 certified, no stock ,contact so to 2000m) D to 5000m) TP-FG:0.5KVac O/P-DC OK:0.50 00VDC / 25°C / 70% RH Standard BS EN/EN55032(CISPR32) / Bs	IS Locations T4; UL61010; TUV C61010; RCM AS/NZS 62368-1,/ ale for inquires  KVac  S EN/EN61204-3 / CNS15936	/ BS EN/EN62368-1 AS/NZS 61558-1/-2 Test Level / Note Class B	
IVIRONMENT	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS  OVER VOLTAGE CATEGORY Note.6  SAFETY EXTRA-LOW VOLTAGE (SELV) WITHSTAND VOLTAGE	±0.03%/°C (0 ~ 60°C)  Component: 10 ~ 500Hz, 2G 10min./1cycl  UL121201/CSA C22.2 NO.213.17 Class I BS EN/EN61558-1/-2-16,BS EN/EN61011 BSMI CNS15598-1;CCC GB4943.1;EAC KC KC62368-1 and BIS IS13252 (Part 1): IEC/EN 61558-1/-2-16 (OVC III, altitude up IEC/EN/UL 61010 (OVC III, altitude up IEC/EN 62368-1 (OVC III, altitude up IEC/EN/UL 61010-2-201 (SELV) IEC/EN/UL 61010-2-201 (SELV) IEC/EN 62368-1 (P-FG:2.5KVac O) I/P-O/P:4.87KVac I/P-FG:2.5KVac O I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 5  Parameter Conducted Radiated	e, 60min. each along X, Y, Z axes; , Div. 2 Group A, B, C, D Hazardou D;CB IEC62368-1,IEC61558-1,IEC TPTC004 approved; 2010 certified, no stock ,contact so D to 2000m ) D to 5000m ) D to 5000m ) D/P-FG:0.5KVac O/P-DC OK:0.5I 00VDC / 25°C/ 70% RH Standard BS EN/EN55032(CISPR32) / BS BS EN/EN55032(CISPR32) / BS	IS Locations T4; UL61010; TUV C61010; RCM AS/NZS 62368-1,/ ale for inquires  KVac  S EN/EN61204-3 / CNS15936	/ BS EN/EN62368-1 AS/NZS 61558-1/-2 Test Level / Note Class B Class B	
	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS  OVER VOLTAGE CATEGORY Note.6  SAFETY EXTRA-LOW VOLTAGE (SELV)  WITHSTAND VOLTAGE ISOLATION RESISTANCE	±0.03%/°C (0 ~ 60°C)  Component: 10 ~ 500Hz, 2G 10min./1cycl  UL121201/CSA C22.2 NO.213.17 Class I BS EN/EN61558-1/-2-16,BS EN/EN61011 BSMI CNS15598-1;CCC GB4943.1;EAC KC KC62368-1 and BIS IS13252 (Part 1): IEC/EN 61558-1/-2-16 (OVC III, altitude up IEC/EN/UL 61010 (OVC III, altitude up IEC/EN 62368-1 (OVC III, altitude up IEC/EN/UL 61010-2-201 (SELV) IEC/EN/UL 61010-2-201 (SELV) IEC/EN 62368-1 (SELV/ES1) I/P-O/P:4.87KVac I/P-FG:2.5KVac O I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 5 Parameter Conducted Radiated Harmonic Current	e, 60min. each along X, Y, Z axes; , Div. 2 Group A, B, C, D Hazardou 0;CB IEC62368-1,IEC61558-1,IEC TPTC004 approved; 2010 certified, no stock ,contact so 0 to 2000m) 0 to 5000m) 0 to 5000m) /P-FG:0.5KVac O/P-DC OK:0.5I 00VDC / 25°C/ 70% RH Standard BS EN/EN55032(CISPR32) / BS BS EN/EN55032(CISPR32) / BS BS EN/EN61000-3-2	IS Locations T4; UL61010; TUV C61010; RCM AS/NZS 62368-1,/ ale for inquires  KVac  S EN/EN61204-3 / CNS15936	Test Level / Note Class B Class A	
AFETY &	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS  OVER VOLTAGE CATEGORY Note.6  SAFETY EXTRA-LOW VOLTAGE (SELV)  WITHSTAND VOLTAGE ISOLATION RESISTANCE	±0.03%/°C (0 ~ 60°C)  Component: 10 ~ 500Hz, 2G 10min./1cycl  UL121201/CSA C22.2 NO.213.17 Class I BS EN/EN61558-1/-2-16, BS EN/EN61011 BSMI CNS15598-1; CCC GB4943.1; EAC KC KC62368-1 and BIS IS13252 (Part 1): IEC/EN 61558-1/-2-16 (OVC III, altitude up IEC/EN/UL 61010 (OVC II, altitude up IEC/EN/UL 61010-2-201 (SELV) IEC/EN/UL 61010-2-201 (SELV) IEC/EN/UL 61010-2-201 (SELV) IEC/EN/UL 61010-2-201 (SELV) IEC/EN 62368-1 (SELV/ES1) I/P-O/P:4.87KVac I/P-FG:2.5KVac O I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 5 Parameter Conducted Radiated Harmonic Current Voltage Flicker	e, 60min. each along X, Y, Z axes; , Div. 2 Group A, B, C, D Hazardou D;CB IEC62368-1,IEC61558-1,IEC TPTC004 approved; 2010 certified, no stock ,contact so D to 2000m ) D to 5000m ) D to 5000m ) D/P-FG:0.5KVac O/P-DC OK:0.5I 00VDC / 25°C/ 70% RH Standard BS EN/EN55032(CISPR32) / BS BS EN/EN55032(CISPR32) / BS	IS Locations T4; UL61010; TUV C61010; RCM AS/NZS 62368-1,/ ale for inquires  KVac  S EN/EN61204-3 / CNS15936	AS/NZS 61558-1/-2  Test Level / Note Class B Class B	
AFETY &	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS  OVER VOLTAGE CATEGORY Note.6  SAFETY EXTRA-LOW VOLTAGE (SELV)  WITHSTAND VOLTAGE ISOLATION RESISTANCE	±0.03%/°C (0 ~ 60°C)  Component: 10 ~ 500Hz, 2G 10min./1cycl  UL121201/CSA C22.2 NO.213.17 Class I BS EN/EN61558-1/-2-16,BS EN/EN61011 BSMI CNS15598-1;CCC GB4943.1;EAC KC KC62368-1 and BIS IS13252 (Part 1): IEC/EN 61558-1/-2-16 (OVC III, altitude up IEC/EN/UL 61010 (OVC III, altitude up IEC/EN 62368-1 (OVC III, altitude up IEC/EN/UL 61010-2-201 (SELV) IEC/EN/UL 61010-2-201 (SELV) IEC/EN 62368-1 (SELV/ES1) I/P-O/P:4.87KVac I/P-FG:2.5KVac O I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 5 Parameter Conducted Radiated Harmonic Current	e, 60min. each along X, Y, Z axes; , Div. 2 Group A, B, C, D Hazardou 0;CB IEC62368-1,IEC61558-1,IEC TPTC004 approved; 2010 certified, no stock ,contact so 0 to 2000m) 0 to 5000m) 0 to 5000m) /P-FG:0.5KVac O/P-DC OK:0.5I 00VDC / 25°C/ 70% RH Standard BS EN/EN55032(CISPR32) / BS BS EN/EN55032(CISPR32) / BS BS EN/EN61000-3-2	IS Locations T4; UL61010; TUV C61010; RCM AS/NZS 62368-1,/ ale for inquires  KVac  S EN/EN61204-3 / CNS15936	Test Level / Note Class B Class A	
AFETY & MC	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS  OVER VOLTAGE CATEGORY Note.6  SAFETY EXTRA-LOW VOLTAGE (SELV)  WITHSTAND VOLTAGE ISOLATION RESISTANCE	±0.03%/°C (0 ~ 60°C)  Component: 10 ~ 500Hz, 2G 10min./1cycl  UL121201/CSA C22.2 NO.213.17 Class I BS EN/EN61558-1/-2-16, BS EN/EN61011 BSMI CNS15598-1; CCC GB4943.1; EAC KC KC62368-1 and BIS IS13252 (Part 1): IEC/EN 61558-1/-2-16 (OVC III, altitude up IEC/EN/UL 61010 (OVC II, altitude up IEC/EN/UL 61010-2-201 (SELV) IEC/EN/UL 61010-2-201 (SELV) IEC/EN/UL 61010-2-201 (SELV) IEC/EN/UL 61010-2-201 (SELV) IEC/EN 62368-1 (SELV/ES1) I/P-O/P:4.87KVac I/P-FG:2.5KVac O I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 5 Parameter Conducted Radiated Harmonic Current Voltage Flicker	e, 60min. each along X, Y, Z axes; , Div. 2 Group A, B, C, D Hazardou 0;CB IEC62368-1,IEC61558-1,IEC TPTC004 approved; 2010 certified, no stock ,contact so 0 to 2000m) 0 to 5000m) 0 to 5000m) /P-FG:0.5KVac O/P-DC OK:0.5I 00VDC / 25°C/ 70% RH Standard BS EN/EN55032(CISPR32) / BS BS EN/EN55032(CISPR32) / BS BS EN/EN61000-3-2	IS Locations T4; UL61010; TUV C61010; RCM AS/NZS 62368-1,/ ale for inquires  KVac  S EN/EN61204-3 / CNS15936	Test Level / Note Class B Class A	
AFETY &	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS  OVER VOLTAGE CATEGORY Note.6  SAFETY EXTRA-LOW VOLTAGE (SELV)  WITHSTAND VOLTAGE ISOLATION RESISTANCE	±0.03%/°C (0 ~ 60°C)  Component:10 ~ 500Hz, 2G 10min./1cycl  UL121201/CSA C22.2 NO.213.17 Class I BS EN/EN61558-1/-2-16,BS EN/EN61011 BSMI CNS15598-1;CCC GB4943.1;EAC KC KC62368-1 and BIS IS13252 (Part 1): IEC/EN 61558-1/-2-16 (OVC III, altitude up IEC/EN/UL 61010 (OVC II, altitude up IEC/EN/UL 61010-2-201 (SELV) IEC/EN/UL 61010-2-201 (SELV) IEC/EN 62368-1 (SELV) IEC/EN 62368-1 (SELV) IFC/EN/UL 61010-2-201 (SELV) IFC/EN 62368-1 (SELV) IFC/EN/ES1) I/P-O/P:4.87KVac I/P-FG:2.5KVac O I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 5 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/EN61204-3	e, 60min. each along X, Y, Z axes; , Div. 2 Group A, B, C, D Hazardou 0;CB IEC62368-1,IEC61558-1,IEC TPTC004 approved; 2010 certified, no stock ,contact s 0 to 2000m ) 0 to 5000m ) 8 Standard 8 S EN/EN55032(CISPR32) / B: 8 BS EN/EN61000-3-2 8 BS EN/EN61000-3-3	S EN/EN61204-3 / CNS15936 S EN/EN61204-3 / CNS15936	Test Level / Note Class B Class B Class A	
AFETY &	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS  OVER VOLTAGE CATEGORY Note.6  SAFETY EXTRA-LOW VOLTAGE (SELV)  WITHSTAND VOLTAGE ISOLATION RESISTANCE	±0.03%/°C (0 ~ 60°C)  Component:10 ~ 500Hz, 2G 10min./1cycl  UL121201/CSA C22.2 NO.213.17 Class I BS EN/EN61558-1/-2-16,BS EN/EN61011 BSMI CNS15598-1;CCC GB4943.1;EAC KC KC62368-1 and BIS IS13252 (Part 1): IEC/EN 61558-1/-2-16 (OVC III, altitude up IEC/EN/UL 61010 (OVC II, altitude up IEC/EN/UL 61010-2-201 (SELV) IEC/EN/UL 61010-2-201 (SELV) IEC/EN 62368-1 (SELV) IP-O/P:4.87KVac I/P-FG:2.5KVac O I/P-O/P;4.87KVac I/P-FG:2.5KVac O I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 5  Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/EN61204-3  Parameter	e, 60min. each along X, Y, Z axes; , Div. 2 Group A, B, C, D Hazardou 0;CB IEC62368-1,IEC61558-1,IEC TPTC004 approved; 2010 certified, no stock ,contact s 0 to 2000m ) 0 to 5000m ) 8 Standard 8 SEN/EN55032(CISPR32) / B: 8 BS EN/EN61000-3-2 BS EN/EN61000-3-3	IS Locations T4; UL61010; TUV C61010; RCM AS/NZS 62368-1,/ ale for inquires  KVac  S EN/EN61204-3 / CNS15936 S EN/EN61204-3 / CNS15936 Test Level / Note	Test Level / Note Class B Class B Class A	
AFETY &	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS  OVER VOLTAGE CATEGORY Note.6  SAFETY EXTRA-LOW VOLTAGE (SELV)  WITHSTAND VOLTAGE ISOLATION RESISTANCE	±0.03%/°C (0 ~ 60°C)  Component:10 ~ 500Hz, 2G 10min./1cycl  UL121201/CSA C22.2 NO.213.17 Class I BS EN/EN61558-1/-2-16,BS EN/EN61011 BSMI CNS15598-1;CCC GB4943.1;EAC KC KC62368-1 and BIS IS13252 (Part 1): IEC/EN 61558-1/-2-16 (OVC III, altitude up IEC/EN/UL 61010 (OVC II, altitude up IEC/EN 62368-1 (OVC III, altitude up IEC/EN 62368-1 (SELV) IEC/EN 62368-1 (SELV) IEC/EN 62368-1 (SELV) IEC/EN 62368-1 (SELV) IFC/EN 62368-1 (SELV) IFF-O/P; I/P-FG, O/P-FG:>100M Ohms / 5  Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/EN61204-3  Parameter ESD Radiated Field	e, 60min. each along X, Y, Z axes; , Div. 2 Group A, B, C, D Hazardou 0;CB IEC62368-1,IEC61558-1,IEC TPTC004 approved; 2010 certified, no stock ,contact s 0 to 2000m) 0 to 5000m) 0 to 5000m) 0 to 5000m)  //P-FG:0.5KVac O/P-DC OK:0.5I 00VDC / 25°C / 70% RH  Standard  BS EN/EN55032(CISPR32) / BS BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-2 BS EN/EN61000-4-3	IS Locations T4; UL61010; TUV C61010; RCM AS/NZS 62368-1, A ale for inquires  KVac  S EN/EN61204-3 / CNS15936 S EN/EN61204-3 / CNS15936 S EN/EN61204-3 / CNS15936  Test Level / Note Level 4, 15KV air; Level 4, 8 Level 3, 10V/m; criteria A	Test Level / Note Class B Class A	
AFETY &	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS  OVER VOLTAGE CATEGORY Note.6  SAFETY EXTRA-LOW VOLTAGE (SELV)  WITHSTAND VOLTAGE ISOLATION RESISTANCE	±0.03%/°C (0 ~ 60°C)  Component: 10 ~ 500Hz, 2G 10min./1cycl  UL121201/CSA C22.2 NO.213.17 Class I BS EN/EN61558-1/-2-16,BS EN/EN61011 BSMI CNS15598-1;CCC GB4943.1;EAC KC KC62368-1 and BIS IS13252 (Part 1): IEC/EN 61558-1/-2-16 (OVC III, altitude up IEC/EN/UL 61010 (OVC III, altitude up IEC/EN 62368-1 (OVC III, altitude up IEC/EN 62368-1 (SELV) IEC/EN/UL 61010-2-201 (SELV) IEC/EN 62368-1 (SELV/ES1) I/P-O/P:4.87KVac I/P-FG:2.5KVac O. I/P-O/P; I/P-FG, O/P-FG:>100M Ohms / 5  Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/EN61204-3  Parameter ESD Radiated Field EFT / Burst	e, 60min. each along X, Y, Z axes; , Div. 2 Group A, B, C, D Hazardou 0;CB IEC62368-1,IEC61558-1,IEC TPTC004 approved; 2010 certified, no stock ,contact s to 2000m) 0 to 5000m) 0 to 5000m) 0 to 5000m)  //P-FG:0.5KVac	IS Locations T4; UL61010; TUV C61010; RCM AS/NZS 62368-1, A ale for inquires  KVac  SEN/EN61204-3 / CNS15936 SEN/EN61204-3 / CNS15936 SEN/EN61204-3 / CNS15936  Test Level / Note Level 4, 15KV air; Level 4, 8 Level 3, 10V/m; criteria A Level 4, 4KV; criteria A	Test Level / Note Class B Class B Class A	
AFETY &	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS  OVER VOLTAGE CATEGORY Note.6  SAFETY EXTRA-LOW VOLTAGE (SELV)  WITHSTAND VOLTAGE ISOLATION RESISTANCE  EMC EMISSION	±0.03%/°C (0 ~ 60°C)  Component: 10 ~ 500Hz, 2G 10min./1cycl  UL121201/CSA C22.2 NO.213.17 Class I BS EN/EN61558-1/-2-16,BS EN/EN61011 BSMI CNS15598-1;CCC GB4943.1;EAC KC KC62368-1 and BIS IS13252 (Part 1): IEC/EN 61558-1/-2-16 (OVC III, altitude up IEC/EN/UL 61010 (OVC III, altitude up IEC/EN 62368-1 (OVC III, altitude up IEC/EN 62368-1 (SELV) IEC/EN/UL 61010-2-201 (SELV) IEC/EN 62368-1 (SELV/ES1) I/P-O/P:4.87KVac I/P-FG:2.5KVac O. I/P-O/P; I/P-FG, O/P-FG:>100M Ohms / 5  Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/EN61204-3  Parameter ESD Radiated Field EFT / Burst Surge	e, 60min. each along X, Y, Z axes; , Div. 2 Group A, B, C, D Hazardou D;CB IEC62368-1,IEC61558-1,IEC TPTC004 approved; 2010 certified, no stock ,contact s D to 2000m) D to 5000m) D to 5000m)  /P-FG:0.5KVac O/P-DC OK:0.5l 00VDC / 25°C / 70% RH  Standard BS EN/EN55032(CISPR32) / BS BS EN/EN61000-3-2 BS EN/EN61000-3-3  Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5	IS Locations T4; UL61010; TUV C61010; RCM AS/NZS 62368-1, Asle for inquires  KVac  SEN/EN61204-3 / CNS15936  SEN/EN61204-3 / CNS15936  Test Level / Note Level 4, 15KV air ; Level 4, 8 Level 3, 10V/m ; criteria A Level 4, 4KV ; criteria A Level 4, 4KV ; criteria A	Test Level / Note Class B Class B Class A	
AFETY &	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS  OVER VOLTAGE CATEGORY Note.6  SAFETY EXTRA-LOW VOLTAGE (SELV)  WITHSTAND VOLTAGE ISOLATION RESISTANCE  EMC EMISSION	±0.03%/°C (0 ~ 60°C)  Component: 10 ~ 500Hz, 2G 10min./1cycl  UL121201/CSA C22.2 NO.213.17 Class I BS EN/EN61558-1/-2-16,BS EN/EN61011 BSMI CNS15598-1;CCC GB4943.1;EAC KC KC62368-1 and BIS IS13252 (Part 1): IEC/EN 61558-1/-2-16 (OVC III, altitude up IEC/EN/UL 61010 (OVC II, altitude up IEC/EN 62368-1 (OVC III, altitude up IEC/EN 62368-1 (SELV) IEC/EN/UL 61010-2-201 (SELV) IC/P-O/P:4.87KVac I/P-FG:2.5KVac O I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 5  Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/EN61204-3  Parameter ESD Radiated Field EFT / Burst Surge Conducted	e, 60min. each along X, Y, Z axes; , Div. 2 Group A, B, C, D Hazardou D;CB IEC62368-1,IEC61558-1,IEC TPTC004 approved; 2010 certified, no stock ,contact s D to 2000m) D to 5000m)  /P-FG:0.5KVac O/P-DC OK:0.5l 00VDC / 25°C / 70% RH  Standard  BS EN/EN55032(CISPR32) / BS BS EN/EN61000-3-2 BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6	IS Locations T4; UL61010; TUV C61010; RCM AS/NZS 62368-1, ale for inquires  KVac  S EN/EN61204-3 / CNS15936  S EN/EN61204-3 / CNS15936  Test Level / Note Level 4, 15KV air ; Level 4, 8 Level 3, 10V/m ; criteria A Level 4, 4KV ; criteria A Level 4, 2KV / Line-Line, Level 4, 3, 10V/m ; criteria A	Test Level / Note Class B Class B Class A	
AFETY &	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS  OVER VOLTAGE CATEGORY Note.6  SAFETY EXTRA-LOW VOLTAGE (SELV)  WITHSTAND VOLTAGE ISOLATION RESISTANCE  EMC EMISSION	±0.03%/°C (0 ~ 60°C)  Component: 10 ~ 500Hz, 2G 10min./1cycl  UL121201/CSA C22.2 NO.213.17 Class I BS EN/EN61558-1/-2-16,BS EN/EN61011 BSMI CNS15598-1;CCC GB4943.1;EAC KC KC62368-1 and BIS IS13252 (Part 1): IEC/EN 61558-1/-2-16 (OVC III, altitude up IEC/EN/UL 61010 (OVC III, altitude up IEC/EN 62368-1 (OVC III, altitude up IEC/EN 62368-1 (SELV) IEC/EN/UL 61010-2-201 (SELV) IEC/EN 62368-1 (SELV/ES1) I/P-O/P:4.87KVac I/P-FG:2.5KVac O. I/P-O/P; I/P-FG, O/P-FG:>100M Ohms / 5  Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/EN61204-3  Parameter ESD Radiated Field EFT / Burst Surge	e, 60min. each along X, Y, Z axes; , Div. 2 Group A, B, C, D Hazardou D;CB IEC62368-1,IEC61558-1,IEC TPTC004 approved; 2010 certified, no stock ,contact s D to 2000m) D to 5000m) D to 5000m)  /P-FG:0.5KVac O/P-DC OK:0.5l 00VDC / 25°C / 70% RH  Standard BS EN/EN55032(CISPR32) / BS BS EN/EN61000-3-2 BS EN/EN61000-3-3  Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5	IS Locations T4; UL61010; TUV C61010; RCM AS/NZS 62368-1, ale for inquires  KVac  SEN/EN61204-3 / CNS15936  SEN/EN61204-3 / CNS15936  Test Level / Note Level 4, 15KV air; Level 4, 8 Level 3, 10V/m; criteria A Level 4, 4KV; criteria A Level 4, 2KV / Line-Line, Level 4, 30A/m; criteria A Level 4, 30A/m; criteria A	Test Level / Note Class B Class B Class A	
AFETY &	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS  OVER VOLTAGE CATEGORY Note.6  SAFETY EXTRA-LOW VOLTAGE (SELV)  WITHSTAND VOLTAGE ISOLATION RESISTANCE  EMC EMISSION	±0.03%/°C (0 ~ 60°C)  Component:10 ~ 500Hz, 2G 10min./1cycl  UL121201/CSA C22.2 NO.213.17 Class I BS EN/EN61558-1/-2-16,BS EN/EN61011 BSMI CNS15598-1;CCC GB4943.1;EAC KC KC62368-1 and BIS IS13252 (Part 1): IEC/EN 61558-1/-2-16 (OVC III, altitude up IEC/EN/UL 61010 (OVC III, altitude up IEC/EN 62368-1 (OVC III, altitude up IEC/EN 62368-1 (SELV) IP-O/P:4.87KVac //P-FG:2.5KVac O. I/P-O/P;4.87KVac //P-FG:2.5KVac O. I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 5  Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/EN61204-3  Parameter ESD Radiated Field EFT / Burst Surge Conducted Magnetic Field	e, 60min. each along X, Y, Z axes; , Div. 2 Group A, B, C, D Hazardou 0;CB IEC62368-1,IEC61558-1,IEC TPTC004 approved; 2010 certified, no stock ,contact s 0 to 2000m) 0 to 5000m) 0 to 5000m) 0 to 5000m)  //P-FG:0.5KVac O/P-DC OK:0.5i 00VDC / 25°C / 70% RH  Standard  BS EN/EN55032(CISPR32) / BS BS EN/EN61000-3-2  BS EN/EN61000-4-2  BS EN/EN61000-4-3  BS EN/EN61000-4-5  BS EN/EN61000-4-6  BS EN/EN61000-4-8	IS Locations T4; UL61010; TUV C61010; RCM AS/NZS 62368-1, ale for inquires  KVac  S EN/EN61204-3 / CNS15936  S EN/EN61204-3 / CNS15936  S EN/EN61204-3 / CNS15936  Level 4, 15KV air; Level 4, 8 Level 3, 10V/m; criteria A Level 4, 4KV; criteria A Level 4, 2KV / Line-Line, Level 4, 30A/m; criteria A	Test Level / Note Class B Class B Class A  KV contact	
AFETY &	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS  OVER VOLTAGE CATEGORY Note.6  SAFETY EXTRA-LOW VOLTAGE (SELV)  WITHSTAND VOLTAGE ISOLATION RESISTANCE  EMC EMISSION	±0.03%/°C (0 ~ 60°C)  Component: 10 ~ 500Hz, 2G 10min./1cycl  UL121201/CSA C22.2 NO.213.17 Class I BS EN/EN61558-1/-2-16,BS EN/EN61011 BSMI CNS15598-1;CCC GB4943.1;EAC KC KC62368-1 and BIS IS13252 (Part 1): IEC/EN 61558-1/-2-16 (OVC III, altitude up IEC/EN/UL 61010 (OVC III, altitude up IEC/EN 62368-1 (OVC III, altitude up IEC/EN 62368-1 (SELV) IEC/EN/UL 61010-2-201 (SELV) IEC/EN/UL 61010-2-201 (SELV) IEC/EN/UL 61010-2-201 (SELV) IEC/EN 62368-1 (/P-FG:2.5KVac O/I/P-O/P; 1/P-FG, O/P-FG:2.5KVac O/I/P-O/P, I/P-FG, O/P-FG:2.5KVac O/I/P-O/P, I/P-FG, O/P-FG:30M Ohms / 5  Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/EN61204-3  Parameter ESD Radiated Field EFT / Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions	e, 60min. each along X, Y, Z axes; , Div. 2 Group A, B, C, D Hazardou D;CB IEC62368-1,IEC61558-1,IEC TPTC004 approved; 2010 certified, no stock ,contact s D to 2000m) D to 5000m)  /P-FG:0.5KVac O/P-DC OK:0.5l 00VDC / 25°C / 70% RH  Standard  BS EN/EN55032(CISPR32) / BS BS EN/EN61000-3-2 BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-11	IS Locations T4; UL61010; TUV C61010; RCM AS/NZS 62368-1, ale for inquires  KVac  SEN/EN61204-3 / CNS15936  SEN/EN61204-3 / CNS15936  Test Level / Note Level 4, 15KV air; Level 4, 8 Level 3, 10V/m; criteria A Level 4, 4KV; criteria A Level 4, 2KV / Line-Line, Lev Level 3, 10V/m; criteria A Level 4, 30A/m; criteria A Level 4, 30A/m; criteria A Sey5% dip 0.5 periods, 30% periods 95% interruptions	Test Level / Note Class B Class B Class A  KV contact	
AFETY &	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS  OVER VOLTAGE CATEGORY Note.6  SAFETY EXTRA-LOW VOLTAGE (SELV)  WITHSTAND VOLTAGE ISOLATION RESISTANCE  EMC EMISSION	## ±0.03%/°C (0 ~ 60°C)  Component: 10 ~ 500Hz, 2G 10min./1cycl  UL121201/CSA C22.2 NO.213.17 Class I BS EN/EN61558-1/-2-16,BS EN/EN61011 BSMI CNS15598-1;CCC GB4943.1;EAC KC KC62368-1 and BIS IS13252 (Part 1): IEC/EN 61558-1/-2-16 (OVC III, altitude up IEC/EN/UL 61010 (OVC III, altitude up IEC/EN 62368-1 (OVC III, altitude up IEC/EN/UL 61010-2-201 (SELV) IEC/EN/UL 61010-2-201 (SELV) IEC/EN/UL 61010-2-201 (SELV) IEC/EN 62368-1 (P-FG:2-5KVac O) I/P-O/P:4.87KVac I/P-FG:2-5KVac O) I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 5  Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/EN61204-3  Parameter ESD Radiated Field EFT / Burst Surge Conducted Magnetic Field  Voltage Dips and Interruptions K hrs min. Telcordia SR-332(Bellcore)	e, 60min. each along X, Y, Z axes; , Div. 2 Group A, B, C, D Hazardou D;CB IEC62368-1,IEC61558-1,IEC TPTC004 approved; 2010 certified, no stock ,contact s D to 2000m) D to 5000m)  /P-FG:0.5KVac O/P-DC OK:0.5l 00VDC / 25°C / 70% RH  Standard  BS EN/EN55032(CISPR32) / BS BS EN/EN61000-3-2 BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-11	IS Locations T4; UL61010; TUV C61010; RCM AS/NZS 62368-1, ale for inquires  KVac  SEN/EN61204-3 / CNS15936  SEN/EN61204-3 / CNS15936  Test Level / Note Level 4, 15KV air; Level 4, 8 Level 3, 10V/m; criteria A Level 4, 4KV; criteria A Level 4, 2KV / Line-Line, Lev Level 3, 10V/m; criteria A Level 4, 30A/m; criteria A Level 4, 30A/m; criteria A Sey5% dip 0.5 periods, 30% periods 95% interruptions	Test Level / Note Class B Class B Class A  KV contact	
AFETY & MC lote 7)	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS  OVER VOLTAGE CATEGORY Note.6  SAFETY EXTRA-LOW VOLTAGE (SELV)  WITHSTAND VOLTAGE ISOLATION RESISTANCE  EMC EMISSION	±0.03%/°C (0 ~ 60°C)  Component: 10 ~ 500Hz, 2G 10min./1cycl  UL121201/CSA C22.2 NO.213.17 Class I BS EN/EN61558-1/-2-16,BS EN/EN61011 BSMI CNS15598-1;CCC GB4943.1;EAC KC KC62368-1 and BIS IS13252 (Part 1): IEC/EN 61558-1/-2-16 (OVC III, altitude up IEC/EN/UL 61010 (OVC III, altitude up IEC/EN 62368-1 (OVC III, altitude up IEC/EN 62368-1 (SELV) IEC/EN/UL 61010-2-201 (SELV) IEC/EN/UL 61010-2-201 (SELV) IEC/EN/UL 61010-2-201 (SELV) IEC/EN 62368-1 (/P-FG:2.5KVac O/I/P-O/P; 1/P-FG, O/P-FG:2.5KVac O/I/P-O/P, I/P-FG, O/P-FG:2.5KVac O/I/P-O/P, I/P-FG, O/P-FG:30M Ohms / 5  Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/EN61204-3  Parameter ESD Radiated Field EFT / Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions	e, 60min. each along X, Y, Z axes; , Div. 2 Group A, B, C, D Hazardou D;CB IEC62368-1,IEC61558-1,IEC TPTC004 approved; 2010 certified, no stock ,contact s D to 2000m) D to 5000m)  /P-FG:0.5KVac O/P-DC OK:0.5l 00VDC / 25°C / 70% RH  Standard  BS EN/EN55032(CISPR32) / BS BS EN/EN61000-3-2 BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-11	IS Locations T4; UL61010; TUV C61010; RCM AS/NZS 62368-1, ale for inquires  KVac  SEN/EN61204-3 / CNS15936  SEN/EN61204-3 / CNS15936  Test Level / Note Level 4, 15KV air; Level 4, 8 Level 3, 10V/m; criteria A Level 4, 4KV; criteria A Level 4, 2KV / Line-Line, Lev Level 3, 10V/m; criteria A Level 4, 30A/m; criteria A Level 4, 30A/m; criteria A Sey5% dip 0.5 periods, 30% periods 95% interruptions	Test Level / Note Class B Class B Class A  KV contact	
AFETY & IMC Note 7)	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS  OVER VOLTAGE CATEGORY Note.6  SAFETY EXTRA-LOW VOLTAGE (SELV)  WITHSTAND VOLTAGE ISOLATION RESISTANCE  EMC EMISSION  EMC IMMUNITY	## ±0.03%/°C (0 ~ 60°C)  Component: 10 ~ 500Hz, 2G 10min./1cycl  UL121201/CSA C22.2 NO.213.17 Class I BS EN/EN61558-1/-2-16,BS EN/EN61011 BSMI CNS15598-1;CCC GB4943.1;EAC KC KC62368-1 and BIS IS13252 (Part 1): IEC/EN 61558-1/-2-16 (OVC III, altitude up IEC/EN/UL 61010 (OVC III, altitude up IEC/EN 62368-1 (OVC III, altitude up IEC/EN/UL 61010-2-201 (SELV) IEC/EN/UL 61010-2-201 (SELV) IEC/EN/UL 61010-2-201 (SELV) IEC/EN 62368-1 (P-FG:2-5KVac O) I/P-O/P:4.87KVac I/P-FG:2-5KVac O) I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 5  Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/EN61204-3  Parameter ESD Radiated Field EFT / Burst Surge Conducted Magnetic Field  Voltage Dips and Interruptions K hrs min. Telcordia SR-332(Bellcore)	e, 60min. each along X, Y, Z axes; , Div. 2 Group A, B, C, D Hazardou D;CB IEC62368-1,IEC61558-1,IEC TPTC004 approved; 2010 certified, no stock ,contact s D to 2000m) D to 5000m)  /P-FG:0.5KVac O/P-DC OK:0.5l 00VDC / 25°C / 70% RH  Standard  BS EN/EN55032(CISPR32) / BS BS EN/EN61000-3-2 BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-11	IS Locations T4; UL61010; TUV C61010; RCM AS/NZS 62368-1, ale for inquires  KVac  SEN/EN61204-3 / CNS15936  SEN/EN61204-3 / CNS15936  Test Level / Note Level 4, 15KV air; Level 4, 8 Level 3, 10V/m; criteria A Level 4, 4KV; criteria A Level 4, 2KV / Line-Line, Lev Level 3, 10V/m; criteria A Level 4, 30A/m; criteria A Level 4, 30A/m; criteria A Sey5% dip 0.5 periods, 30% periods 95% interruptions	Test Level / Note Class B Class B Class A  KV contact	

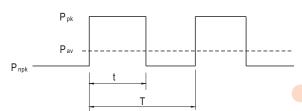


#### ■ Peak Power

$$P_{av} = \frac{P_{pk} \ X \ t + P_{npk} \ X \ (T-t)}{T} \leqslant \ P_{rated}$$

Duty = 
$$\frac{t}{T}$$
 x 100%  $\leq 35\%$ 

t ≤ 5 sec



Pav: Average output power (W)

P<sub>pk</sub>: Peak output power (W)

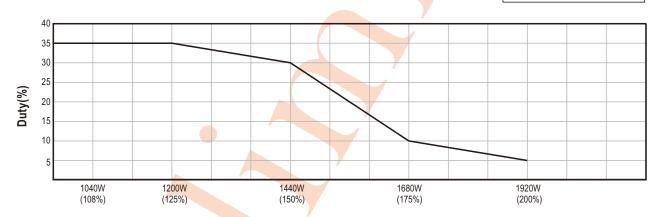
P<sub>npk</sub>: Non-peak output power(W)

Prated: Rated output power(W)

t : Peak power width(sec)

T: Period(sec)





#### Peak output power (W)

#### For example (24V model):

$$P_{av} = P_{rated} = 960W$$

P<sub>pk</sub>= 1920W

t ≤ 5 sec

$$T \ge \frac{5 \text{ sec}}{5\%} \ge 100 \text{sec}$$

$$P_{npk} \le \frac{T P_{av} - t P_{pk}}{T - t}$$

 $P_{npk} \le 910W$ 



#### ■ Function Manual

Pin No.	Function	Description
1,2	DC OK Relay Contact	Contact close: PSU turns ON/DC_OK; Contact open: PSU turns OFF/DC_fail; Contact ratings (max.): 30Vdc/1A,30Vac/0.5A resistive load.
3	P+	Current sharing signal. When units are connected in parallel, the P+ pins of the units should be connected mutually to allow current balance between units.
4	P-	Current sharing signal. When units are connected in parallel, the P- pins of the units should be connected mutually to allow current balance between units. P- Signal is internally connected to -Vo.
5	RC+	Turns the output ON and OFF by electrical singal Remote power ON: Open or keep 2~5Vdc
6	RC-	Remote power OFF: Short or keep<0.5Vdc



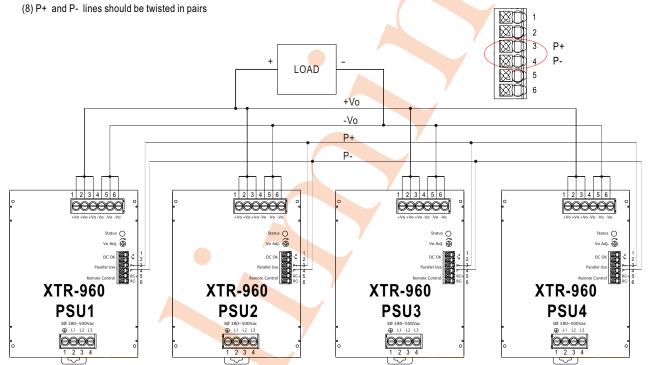


#### 1.Parallel Use

XTR-960 has the built-in active current sharing function and can be connected in parallel, up to 4 units, to provide higher output power as exhibited below:

- (1) Parallel operation is available by connecting the units shown as below (P+,P- are connected mutually in parallel).
- (2) Difference of output voltages among parallel units should be less than 0.2V.
- (3) The total output current must not exceed the value determined by the following equation (Output current at parallel operation)=(The rated current per unit) x (Number of unit) x 0.9.
- (4) In parallel operation 4 units is the maximum, please consult the manufacture for other applications.
- (5) The power supplies should be paralleled using short and large diameter wiring and then connected to the load.
- (6) When in parallel operation, the minimum output load should be greater than 5% of total output load. (Min. load >5% rated current per unit x number of unit)
- (7) In parallel connection, maybe only one unit (master) operate if the total output load is less than 5% of rated load condition.

The other PSUs (slaves) may go into standby mode and their output LEDs & relays will not turn on.



\* Please contact MEAN WELL for more details.

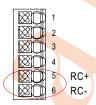
#### 2.DC OK Relay Contact

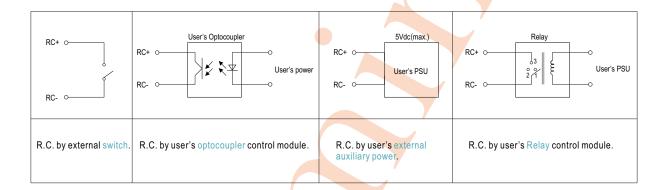
Contact Close	PSU turns ON / DC OK.		DC OK.
Contact Open	PSU turns OFF / DC Fail.		<b>⊗</b> 3 <b>3 4</b>
Contact ratings (max.)	30Vdc/1A,30Vac/0.5A resistive load.		5
Internal circuit of DC_OK,	External voltage source (The max. Sink is 30Vdc	• • • • • • • • • • • • • • • • • • • •	6

#### 3.Remote ON/OFF Control

The PSU can be turned ON/OFF by using the "Remote Control" function.

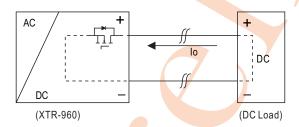
PSU Vo Status	Between RC+ and RC-
Remote power ON	Open or keep 2~5Vdc
Remote power OFF	Short or keep<0.5Vdc





#### 4. Protection Against Reverse Voltages from the Load

Prevent PSU damage from Back Electro magnetic Force during deceleration of motor or inductive load.

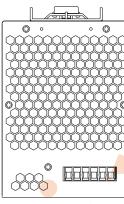


PSU'S ORing FET turn OFF voltage			
MODEL Max. allowable reverse voltage			
XTR-960-24	<35V		
XTR-960-36	<50V		
XTR-960-48 <63V			



#### ■ Mechanical Specification

(Unit:mm , Tolerance ±1mm)



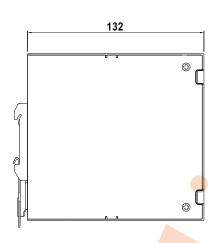
Case No.304

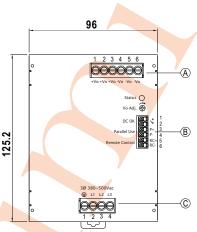
#### A: Terminal Pin No. Assignment

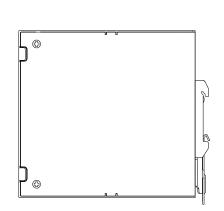
Pin No.	Assignment
1,2,3	DC Output +Vo
4,5,6	DC Output -Vo

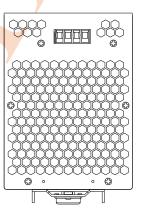
#### B: Control Pin No. Assignment

Pin No.	Assignment
1,2	DC OK Relay Contact
3	P+(Current sharing)
4	P-(Current sharing)
5	RC+
6	RC-









#### ${\hbox{$\Bbb C$}}$ : Terminal Pin No. Assignment

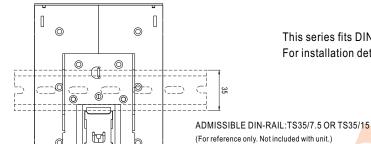
Pin No.	Assignment	
1	FG ⊕	
2	AC/L1	
3	AC/L2	
4	AC/L3	

#### ■ Recommend Wiring

	AC Input T.B	DC Output T.B	Signal connector
Solid Wire	6mm² max.	6mm² max.	1.5mm² max.
A.W.G	18~10 AWG	18~10 AWG	24~16 AWG
Screw Terminal Torque	9 Lb-In	9 Lb-In	1



#### ■ Installation Instruction



This series fits DIN rail TS35<mark>/7.5</mark> or TS35/15.

For installation details, please refer to the Instruction manual.

## ■ Installation Manual

Please refer to : http://www.meanwell.com/manual.html