









































Applications

Factory automation

· Industrial control system



· Electro-mechanical apparatus



· Semiconductor fabrication equipment



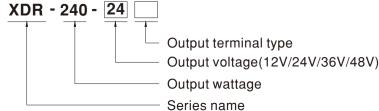
### ■ Features

- 85~305Vac input with PFC (277Vac available)
- · Global certificates in multi-fields(ITE 62368-1,Industrial 61558-1/-2-16,61010) & Marine DNV, SEMI47, CID2 HazLoc approved
- · 40mm ultra slim width
- · High efficiency up to 95.5% and no load power dissipation<1W by R.C.
- Built-in MODBus protocol
- · 200% peak power capability
- · 600% pulse current capability
- · Built-in constant current limiting circuit
- · Current sharing up to 960W (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 <6~15A</li>
- · Built-in ORing FET
- Tool free terminal block (LA Type)
- · Conformal coating
- · Can be installed on DIN rail TS-35/75 or15
- · 5 years warranty

### Description

The XDR-240 series is a 240W AC/DC high-end ultra slim industrial DIN rail power. Key features of this series include a narrow 40mm casing, optimizing system installation space, and an ultra-wide input range of 85~305Vac suitable for global use. It boasts a maximum efficiency of 95.5% and a low standby power consumption of 1W for energy savings and carbon reduction. It supports MODBus communication interface, provides constant current with up to 200% peak power, and can handle instantaneous peak current of 600%. It has a fanless design, ultra-wide operating temperature range of -40 to +85°€ (up to +60°C at full load); OVCIII compliance; parallel function capability up to 960W; ultra-low inrush current of <6~15A, and includes DC OK and remote ON/OFF functions. It also has a built-in ORing FET, the internal PCB has a coating for 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 XDR-240 series is a compact, high-performance, and highly reliable DIN rail power supply.





	•			
Terminal Type Options Note				
Blank	Screw Terminal		In stock	
LA	Lever Actuated	A TABLE	In stock	
PI	Push In		In stock	

# ■ GTIN CODE

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

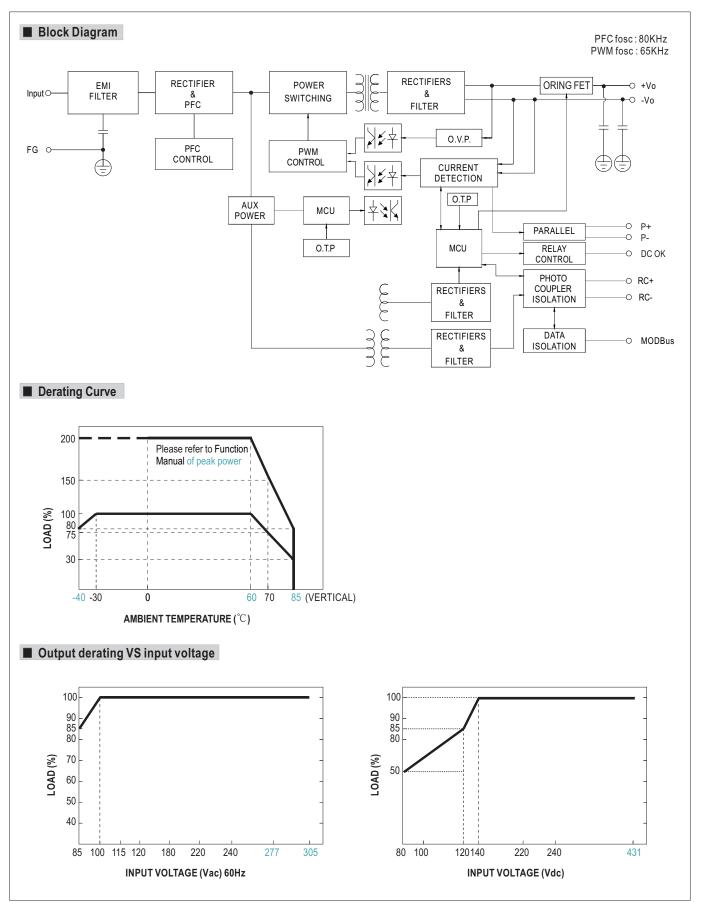


SPECIFICATION	SPECIFICATION		XDR-240-12 □	XDR-240-24□	XDR-240-36 □	XDR-240-48□	
COLOTIZAGE				ADIC 240 24	ADIC 240 00	ABIC 240 40	
Delicity	OUTPUT						
APTED POWER   See   240   See   20	DC VOLTAGE		12V	24V	36V	48V	
APTED POWER   See   240   See   20	LOAD CURRENT RANG	E					
PEAK   POWER (Seec.)   480%   500%	RATED POWER		240W			0 0/1	
PARK   POWER (See.)   POWER (See.		CURRENT (5sec.)	40A	20A	13.32A	10A	
Note	PEAK	` ′					
VOLTAGE ADJ. RANGE	RIPPLE & NOISE (max.)		,	100mVn-n	120mVn-n	150mVp-p	
LINE REGULATION	VOLTAGE ADJ. RANGE						
LOAD REGULATION	VOLTAGE TOLERANCE	Note.3	±2.0%	±1.0%	±1.0%	±1.0%	
Setup. RISE TIME	LINE REGULATION		±0.5%	±0.5%	±0.5%	±0.5%	
NOLIOUP TIME (Typ.)	LOAD REGULATION		±1.0%	±1.0%	±1.0%	±1.0%	
NPUT  AC VOLTAGE RANGE	SETUP, RISE TIME		1500ms, 150ms/230Vac 3	000ms, 150ms/115Vac at full loa	d		
NO LOAD   CONSUMPTION (Typ.)   POWER FACTOR (Typ.)   CONSUMPTION (Typ.)   POWER FACTOR (Typ.)   CONSUMPTION (Typ.)   POWER FACTOR	HOLD UP TIME (Typ.)		20ms/230VAC 20ms/115\	/AC at full load			
NO LOAD   NO LOAD   Remote Power OFF   1/4 (2115/34c & 2300/34c   Section	INPUT						
No LOAD CONSUMPTION (Typ.)   Remote Power OFF   10 % g115 Vac & 2300 Vac	AC VOLTAGE RANGE		85 ~ 305Vac				
Name	DC VOLTAGE RANGE		80~431Vdc (Derating 50% Lo	ad @80Vdc)			
New	NO LOAD Remote Power OFF		1W @115Vac & 230Vac				
PF-0.98/115Vac	CONSUMPTION(Typ.) Remote Power ON		2.5W @115Vac & 230Vac				
EFFICIENCY (Typ.)   94%   95%   95.5%   95.5%   95.5%	FREQUENCY RANGE		47 ~ 63Hz				
AC CURRENT (Typ.) 2.6A/115Vac 1.3A/230Vac 1.1A/27TVac  INRUSH CURRENT (Typ.) COLD START 6A/115Vac 10A/230Vac 15A/27TVac  LEAKAGE CURRENT    COLD START 6A/115Vac 10A/230Vac 15A/27TVac    COLD START 6A/115Vac 15A/230Vac 15A/27TVac    COLD START 6A/115Vac 16A/230Vac 15A/27TVac    COLD START 6A/115Vac 16A/230Vac 15A/27TVac    COLD START 6A/115Vac 16A/230Vac 15A/27TVac    COLD START 6A/115Vac 15A/27TVac 15A/27TVac 15A/27TVac 15A/27TVac    COLD START 6A/115Vac 15A/27TVac 15A/27TVa	POWER FACTOR (Typ.)	)	PF>0.98/115Vac PF>0.95/230Vac PF>0.9/277Vac at full load				
INRUSH CURRENT (Typ.)  LEAKAGE CURRENT     1ma/240Vac   <1.3mA/277Vac	EFFICIENCY (Typ.)		94%	95%	95.5%	95.5%	
LEAKAGE CURRENT     Stand / 240Vac	AC CURRENT (Typ.)		2.6A/115Vac 1.3A/230Vac 1.1A/277Vac				
PROTECTION  OVERLOAD    105%-200% rated output power for more than 5 sec then constant current limiting at rate current without shutdown when Vo=30%-100%	INRUSH CURRENT (Typ.)		COLD START 6A/115Vac	10A/230Vac 15A/277Vac			
OVERLOAD    105%-200% rated output power for more than 5 sec then constant current limiting at rate current without shutdown when Vo=30%-100% Hiccup mode when Vo<30% rated voltage   16 ~ 19V	LEAKAGE CURRENT		<1mA / 240Vac <1.3mA/ 27	77Vac			
Hiccup mode when Vo<30% rated voltage	PROTECTION						
Hiccup mode when Vo<30% rated voltage  16 ~ 19V 30 ~ 34V 43 ~ 50V 57 ~ 66V  Protection type : Shut down o/p voltage, re-power on to recover  OVER TEMPERATURE Protection type : Shut down o/p voltage, re-power on to recover  FUNCTION  PARALLEL Up to 960W (3+1) units; Please refer to Function Manual for more details.  DC OK RELAY CONTACT Relay Contact Ratings (max.):30 Vdc/1A, 30 Vac/0.5A resistive load  REMOTE CONTROL Power ON :RC(Pin9) and 5V_AUX(Pin10) short. Power OFF:RC(Pin9) and 5V_AUX(Pin10) open.  MODBus INTERFACE Communication provides functions such as control, setting, and monitoring.  ENVIRONMENT  WORKING TEMP. 40 ~ +85°C (Refer to "Derating Curve")  WORKING HUMIDITY 20 ~ 95% RH non-condensing  TEMP. COEFFICIENT ±0.33%/°C (0 ~ 60°C) on Load output	OVERLOAD		105%~200% rated output power f	or more than 5 sec then constant	current limiting at rate current with	out shutdown when Vo=30%~100%	
Protection type: Shut down o/p voltage, re-power on to recover  OVER TEMPERATURE Protection type: Shut down o/p voltage, recovers automatically after temperature goes down  FUNCTION  PARALLEL Up to 960W (3+1) units; Please refer to Function Manual for more details.  DC OK RELAY CONTACT Relay Contact Ratings (max.):30Vdc/1A, 30Vac/0.5A resistive load  Power ON: RC(Pin9) and 5V_AUX(Pin10) short. Power OFF:RC(Pin9) and 5V_AUX(Pin10) open.  MODBus INTERFACE Communication provides functions such as control, setting, and monitoring.  PULSE CURRENT CAPABLILTY 600% rated current for 15ms  ENVIRONMENT  WORKING TEMP. 40 ~ +85°C (Refer to "Derating Curve")  WORKING HUMIDITY 20 ~ 95% RH non-condensing  STORAGE TEMP., HUMIDITY 40 ~ +85°C, 10 ~ 95% RH non-condensing  EMP. COEFFICIENT  ±0.03%/°C (0 ~ 60°C) on Load output	OVERLEO/ID						
Protection type : Shut down o/p voltage, re-power on to recover  Protection type : Shut down o/p voltage, recovers automatically after temperature goes down  FUNCTION  PARALLEL Up to 960W (3+1) units; Please refer to Function Manual for more details.  DC OK RELAY CONTACT Relay Contact Ratings (max.):30Vdc/1A, 30Vac/0.5A resistive load  Power ON :RC(Pin9) and 5V_AUX(Pin10) short. Power OFF:RC(Pin9) and 5V_AUX(Pin10) open.  MODBus INTERFACE Communication provides functions such as control, setting, and monitoring.  PULSE CURRENT CAPABLILTY 600% rated current for 15ms  ENVIRONMENT  WORKING TEMP40 ~ +85°C (Refer to "Derating Curve")  WORKING HUMIDITY 20 ~ 95% RH non-condensing  STORAGE TEMP., HUMIDITY -40 ~ +85°C, 10 ~ 95% RH non-condensing  TEMP. COEFFICIENT + 20 * 40 * 40 * 40 * 40 * 40 * 40 * 40 *	OVER VOLTAGE		16 ~ 19V	30 ~ 34V	43 ~ 50V	57 ~ 66 V	
FUNCTION  PARALLEL Up to 960W (3+1) units; Please refer to Function Manual for more details.  DC OK RELAY CONTACT Relay Contact Ratings (max.):30Vdc/1A, 30Vac/0.5A resistive load  Power ON :RC(Pin9) and 5V_AUX(Pin10) short. Power OFF:RC(Pin9) and 5V_AUX(Pin10) open.  MODBus INTERFACE Communication provides functions such as control, setting, and monitoring.  PULSE CURRENT CAPABLILTY 600% rated current for 15ms  ENVIRONMENT  WORKING TEMP40 ~ +85°C (Refer to "Derating Curve")  WORKING HUMIDITY 20 ~ 95% RH non-condensing  STORAGE TEMP., HUMIDITY -40 ~ +85°C, 10 ~ 95% RH non-condensing  TEMP. COEFFICIENT ±0.03%/°C (0 ~ 60°C) on Load output	072K 702//K02		Protection type: Shut down o/p voltage, re-power on to recover				
PARALLEL  Up to 960W (3+1) units; Please refer to Function Manual for more details.  DC OK RELAY CONTACT  Relay Contact Ratings (max.):30Vdc/1A, 30Vac/0.5A resistive load  Power ON :RC(Pin9) and 5V_AUX(Pin10) short. Power OFF:RC(Pin9) and 5V_AUX(Pin10) open.  MODBus INTERFACE  Communication provides functions such as control, setting, and monitoring.  PULSE CURRENT CAPABLILTY  600% rated current for 15ms  ENVIRONMENT  WORKING TEMP.  40 ~ +85°C (Refer to "Derating Curve")  WORKING HUMIDITY  20 ~ 95% RH non-condensing  STORAGE TEMP., HUMIDITY  ±0.03%°C (0 ~ 60°C) on Load output	OVER TEMPERATURE		Protection type: Shut down o/p voltage, recovers automatically after temperature goes down				
REMOTE CONTROL  REMOTE CONTROL  Power ON :RC(Pin9) and 5V_AUX(Pin10) short. Power OFF:RC(Pin9) and 5V_AUX(Pin10) open.  Power OFF:RC(Pin9) and 5V_AUX(Pin10) open.  Please refer to Function Manual for more details.  Power OFF:RC(Pin9) and 5V_AUX(Pin10) open.  Please refer to Function Manual for more details.  Power OFF:RC(Pin9) and 5V_AUX(Pin10) open.  Power OFF:RC(Pin9) and 5V_AUX(Pin10) open.  Please refer to Function Manual for more details.  Power OFF:RC(Pin9) and 5V_AUX(Pin10) open.  Please refer to Function Manual for more details.  Power OFF:RC(Pin9) and 5V_AUX(Pin10) open.  Power OFF:RC(Pin9) and 5V_AUX(Pin10) open.  Please refer to Function Manual for more details.  Power OFF:RC(Pin9) and 5V_AUX(Pin10) open.  Power OFF:RC(Pin9) and 5V_AUX(Pin10) open.  Please refer to Function Manual for more details.  Power OFF:RC(Pin9) and 5V_AUX(Pin10) open.  Power OFF:RC(Pin9) and 5V_AUX(Pin10) open.  Please refer to Function Manual for more details.  Power OFF:RC(Pin9) and 5V_AUX(Pin10) open.  Power OFF:RC(Pin9) and 5V_AUX(Pin10) open.  Please refer to Function Manual for more details.  Power OFF:RC(Pin9) and 5V_AUX(Pin10) open.  Power OFF:RC(Pin9) and	FUNCTION						
REMOTE CONTROL  Power ON :RC(Pin9) and 5V_AUX(Pin10) short. Power OFF:RC(Pin9) and 5V_AUX(Pin10) open.  Please refer to Function Manual for more details.  Power OFF:RC(Pin9) and 5V_AUX(Pin10) open.  Please refer to Function Manual for more details.  Power OFF:RC(Pin9) and 5V_AUX(Pin10) open.  Please refer to Function Manual for more details.  Power OFF:RC(Pin9) and 5V_AUX(Pin10) open.  Please refer to Function Manual for more details.  Power OFF:RC(Pin9) and 5V_AUX(Pin10) open.  Power OFF:RC(Pin9) and 5V_AUX(Pin10) open.  Please refer to Function Manual for more details.  Power OFF:RC(Pin9) and 5V_AUX(Pin10) open.  Power OFF:RC(Pin9) and 5V_AUX(Pin10) open.  Please refer to Function Manual for more details.  Power OFF:RC(Pin9) and 5V_AUX(Pin10) open.  Power OFF:RC(Pin9) and 5V_AUX(Pin10) open.  Power OFF:RC(Pin9) and 5V_AUX(Pin10) open.  Please refer to Function Manual for more details.  Power OFF:RC(Pin9) and 5V_AUX(Pin10) open.  P	PARALLEL		Up to 960W (3+1) units; Please refer to Function Manual for more details.				
REMOTE CONTROL  Power OFF:RC(Pin9) and 5V_AUX(Pin10) open.  Please refer to Function Manual for more details.  Power OFF:RC(Pin9) and 5V_AUX(Pin10) open.  MODBus INTERFACE  Communication provides functions such as control, setting, and monitoring.  600% rated current for 15ms  ENVIRONMENT  WORKING TEMP.  -40 ~ +85°C (Refer to "Derating Curve")  WORKING HUMIDITY  20 ~ 95% RH non-condensing  STORAGE TEMP., HUMIDITY  -40 ~ +85°C, 10 ~ 95% RH non-condensing  TEMP. COEFFICIENT  ±0.03%/°C (0 ~ 60°C) on Load output	DC OK RELAY CONTACT		Relay Contact Ratings (max.):30Vdc/1A, 30Vac/0.5A resistive load				
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PULSE CURRENT CAPABLILTY  600% rated current for 15ms  ENVIRONMENT  WORKING TEMP.  -40 ~ +85°C (Refer to "Derating Curve")  WORKING HUMIDITY  20 ~ 95% RH non-condensing  STORAGE TEMP., HUMIDITY  -40 ~ +85°C, 10 ~ 95% RH non-condensing  TEMP. COEFFICIENT  ±0.03%/°C (0 ~ 60°C) on Load output	REMOTE CONTROL		Power OFF:RC(Pin9) and 5V_AUX(Pin10) open.				
ENVIRONMENT  WORKING TEMP40 ~ +85°C (Refer to "Derating Curve")  WORKING HUMIDITY 20 ~ 95% RH non-condensing  STORAGE TEMP., HUMIDITY -40 ~ +85°C, 10 ~ 95% RH non-condensing  TEMP. COEFFICIENT ±0.03%/°C (0 ~ 60°C) on Load output	MODBus INTERFACE						
WORKING TEMP.  -40 ~ +85°C (Refer to "Derating Curve")  WORKING HUMIDITY  20 ~ 95% RH non-condensing  STORAGE TEMP., HUMIDITY  -40 ~ +85°C, 10 ~ 95% RH non-condensing  TEMP. COEFFICIENT  ±0.03%/°C (0 ~ 60°C) on Load output	PULSE CURRENT CAPABLILTY		600% rated current for 15ms				
WORKING HUMIDITY  20 ~ 95% RH non-condensing  STORAGE TEMP., HUMIDITY  -40 ~ +85°C, 10 ~ 95% RH non-condensing  ± 0.03%°C (0 ~ 60°C) on Load output	ENVIRONMENT						
STORAGE TEMP., HUMIDITY  -40 ~ +85°C, 10 ~ 95% RH non-condensing  TEMP. COEFFICIENT  ±0.03%/°C (0 ~ 60°C) on Load output	WORKING TEMP.		-40 ~ +85°C (Refer to "Derating Curve")				
TEMP. COEFFICIENT $\pm 0.03\%^{\circ}\text{C} \ (0 \sim 60^{\circ}\text{C}) \ \text{on Load output}$	WORKING HUMIDITY		20 ~ 95% RH non-condensing				
	STORAGE TEMP., HUM	IDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing				
VIBRATION Component: 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes: Mounting: Compliance to IEC60068-2-6	TEMP. COEFFICIENT		$\pm 0.03\%^{\circ}$ C (0 ~ 60 $^{\circ}$ C) on Load output				
. , , , , , , , , , , , , , , , , , , ,	VIBRATION		Component: 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6				



ODEOUTION	XDR-240-12 ☐ XD	R-240-24□ XDR-240-36□	□ XDR-240-48□	
SPECIFICATION	□ =Blank, LA, PI			
SAFETY & EMC Note.4				
SAFETY STANDARDS	UL UL121201/CSA C22.2 NO. RCM AS/NZS 62368-1, AS/NZS CCC GB4943.1; BSMI CNS15598-1; EAC EAC TPTC004 approved;	2368-1,BS EN/EN61558-1/-2-16,BS EN/EN61010 SA C22.2 NO.213.17 Class I,DIV2 Group A,B,C,D Hazardous Locations T4;UL61010 68-1, AS/NZS 61558-1/-2-16;		
OVER VOLTAGE CATEGORY Note.5	IEC/EN 61558-1/-2-16 (OVC III, altitude up to 2000m)  IEC/EN/UL 61010 (OVC II, altitude up to 5000m)  IEC/EN 62368-1 (OVC II, altitude up to 5000m)			
SAFETY EXTRA-LOW VOLTAGE(SELV)	IEC/EN 61558-2-16 (SELV) IEC/EN/UL 61010-2-201 (SELV ) IEC/EN 62368-1 (SELV / ES1 )			
WITHSTAND VOLTAGE	I/P-O/P:4KVac I/P-FG:2KVac O/F	P-FG: 1.5KVac O/P-DC OK: 0.5KVac		
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC/25°C/70%RH			
	Parameter	Standard	Test Level / Note	
	Conducted	BS EN/EN55032 (CISPR32) / BS EN/EN61204-3 / CNS15936	Class B	
EMC EMISSION	Radiated	BS EN/EN55032 (CISPR32) / BS EN/EN61204-3 / CNS15936	Class B	
	Harmonic Current	BS EN/EN61000-3-2	Class A	
	Voltage Flicker BS EN/EN61000-3-3			
	BS EN/EN55035 , BS EN/EN61204-3,	BS EN/EN55035 , BS EN/EN61204-3, BS EN/EN61000-6-2(BS EN/EN50082-2)		
	Parameter	Standard	Test Level / Note	
	ESD	BS EN/EN61000-4-2	Level 4, 15KV air ; Level 4, 8KV contact; criteria A	
	Radiated	BS EN/EN61000-4-3	Level 3, 10V/m; criteria A	
EMC IMMUNITY	EFT / Burst	BS EN/EN61000-4-4	Level 4, 4KV ; criteria A	
	Surge	BS EN/EN61000-4-5	Level 4, 2KV/Line-Line ;Level 4, 4KV/Line-Line-Chassis ;criteria A	
	Conducted	BS EN/EN61000-4-6	Level 3, 10V; criteria A	
	Magnetic Field	BS EN/EN61000-4-8	Level 4, 30A/m; criteria A	
OTHERS	THERS			
MTBF	1066.2K hrs min. Telcordia SR-332 (Bellcore); 129.1K hrs min. MIL-HDBK-217F (25°C)			
DIMENSION	40*125.2*116mm (W*H*D)			
PACKING	0.79Kg; 16pcs/ 13.6Kg / 1.27CUFT			
NOTE				

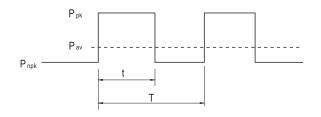
- 1. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25°C of ambient temperature.
- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1  $\mu$  F & 47  $\mu$  F parallel capacitor.
- 3. Tolerance: includes set up tolerance, line regulation and load regulation.
- 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. (as available on https://www.meanwell.com//Upload/PDF/EMI\_statement\_en.pdf)
- 5. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
- 6. Installation clearances: 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power. In case the adjacent device is a heat source, 15mm clearance is recommended.
- ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



#### ■ Peak Power

$$\begin{split} P_{av} &= \frac{P_{pk} \; x \; t + P_{npk} \; x \; \left(T\text{-}t\right)}{T} \; \leqslant \; P_{rated} \\ Duty &= \frac{t}{T} \; x \; 100\% \; \leqslant \; 35\% \end{split}$$

t ≤ 5 sec



Pav: Average output power (W)

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

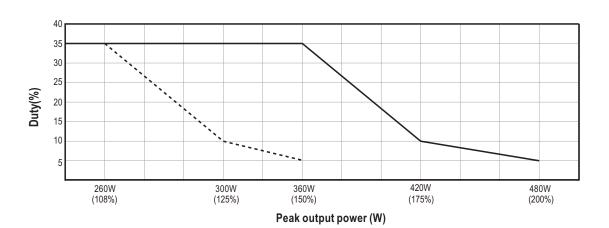
P<sub>npk</sub>: Non-peak output power(W)

 $\mathsf{P}_{\mathsf{rated}}$ : Rated output  $\mathsf{power}(\mathsf{W})$ 

t : Peak power width(sec)

T: Period(sec)





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

$$P_{av} = P_{rated} = 240W$$

$$P_{pk} = 480W$$

$$t \le 5 \sec$$

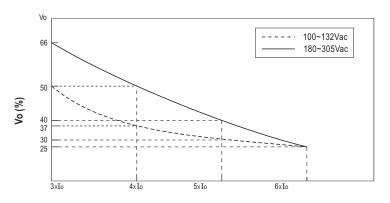
$$T \ge \frac{5 \text{ sec}}{5\%} \ge 100 \text{sec}$$

$$\mathsf{P}_{\mathsf{npk}} \leqslant \, \frac{\mathsf{T} \; \mathsf{P}_{\mathsf{av}} \; - \; t \; \mathsf{P}_{\mathsf{pk}}}{\mathsf{T-}t}$$

$$P_{npk} \le 227.4W$$

#### ■ Transient peak current Capability

\* The device can deliver peak currents (up to several milliseconds) which are higher than the specified short term currents.

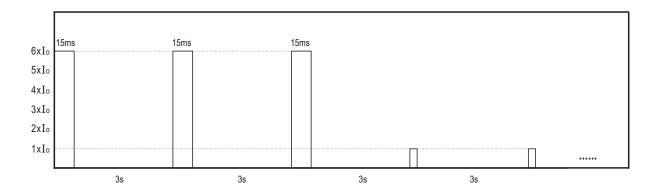


Peak current voltage dip

Load	100~132Vac Vo(%)	180~305Vac Vo(%)	Time
3xIo	50	66	100ms
4xIo	37	50	70ms
5xIo	30	40	40ms
6xIo	25	25	15ms

\*\* After a transient peak curren event occurs, the power supply must remain within its rated output for at least 5 seconds before the next event. If three transient peak curren events occur consecutively, the power supply will limit the output current to 100% for at least 15 seconds.

#### For example: (600% transient peak current)





DC OK

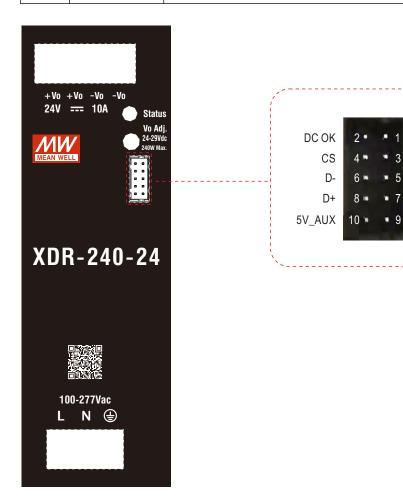
GND\_AUX

GND GND\_AUX

RC

#### **■** 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	GND	Current sharing signal. When units are connected in parallel, the GND pins of the units should be connected mutually to allow current balance between units.
4	cs	Current sharing signal. When units are connected in parallel, the CS pins of the units should be connected mutually to allow current balance between units.
5,7	GND_AUX	The signal return is isolated from the output terminal. (+Vo & -Vo)
6	D-	Data line used in MODBUS interface
8	D+	Data line used in MODBOS interface
9	RC	The unit can turn the output ON/OFF by electrical signal or dry contact between RC ON/OFF(Pin9) and 5V_AUX(Pin10).  Power ON: Short(4~5Vdc);Power OFF: Open(<0.5Vdc);The Maximum input voltage is 5Vdc.
10	5V_AUX	For remote control signal only. Isolated from the output terminals.

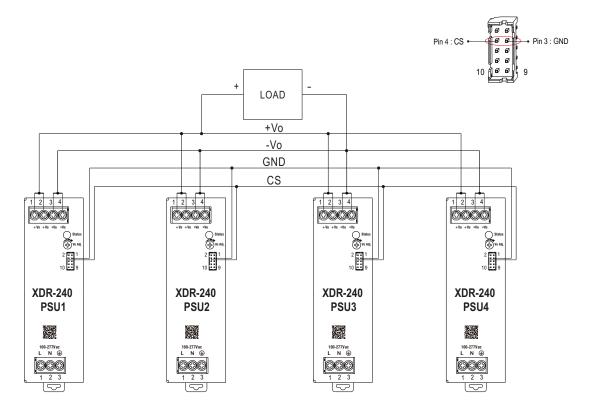




#### 1.Parallel Use

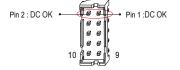
XDR-240 has the built-in active current sharing function and can be connected in parallel, up to 4 units, to provide higher output power as exhibited below:

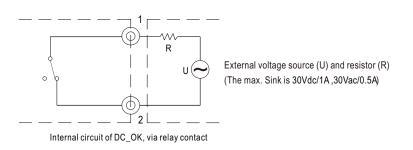
- (1) Parallel operation is available by connecting the units shown as below (CS,GND are connected mutually in parallel).
- (2) Difference of output voltages among parallel units should be less than 0.2V.
- (3) The total output current must not exceed the value determined by the following equation (Output 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 Green LEDs & relays will not turn on.
- (8) CS and GND lines should be twisted in pairs



#### 2.DC OK Relay Contact

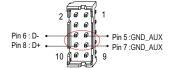
Contact Close	PSU turns ON / DC OK.
Contact Open	PSU turns OFF / DC Fail.
Contact Ratings (max.)	30Vdc/1A,30Vac/0.5A resistive load.

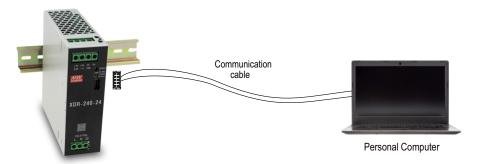




#### 3. Support MODBus Communication

Communication provides functions such as control, setting, and monitoring. Parameters include output voltage, output power, input voltage, etc For details, Please refer to: http://www.meanwell.com/manual.html

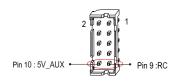


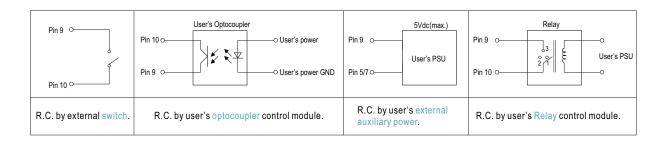


#### 4.Remote ON/OFF Control

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

PSU Vo Status	Between RC(Pin9) and 5V_AUX(Pin10)
Remote power ON	Short or keep 4~5Vdc
Remote power OFF	Open or keep<0.5Vdc

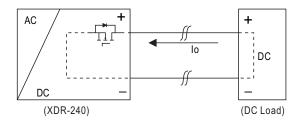






#### 5. Protection Against Inverse Voltages From The Load

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	
XDR-240-12	<16V	
XDR-240-24	<35V	
XDR-240-36	<50V	
XDR-240-48	<63V	

#### **6.LED Status Indictors**

Description	Output of alarm
Restore Factory Settings	Green : 3 Blink/Pause
DC OK	Green
DC Fail	Red
Overload (115Vac: >150% rated current) (230Vac: >200% rated current)	Red : 1 Blink/Pause
Over voltage	Red: 2 Blink/Pause
Over temperature	Red: 3 Blink/Pause
Against Inverse Voltages From The Load	Red: 4 Blink/Pause
High Ambient Temperature Warning	Red: Blink
Others (Note)	Red: 5 Blink/Pause

 $Note: Others\ include\ protection\ status\ AC\ UVP,\ Internal\ Communication\ error\ and\ EEPROM\ error.$ 



#### ■ Mechanical Specification

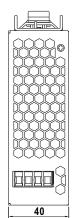
(Unit:mm, Tolerance ±1mm)

Case No.302

(B): Control Pin No. Assignment:JS-2008R-2x05 or equivalent

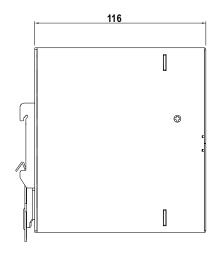
Mating Housing	Terminal
2	1 2
JS-2008R-2x05 or equivalent	H20J1-10 or equivalent

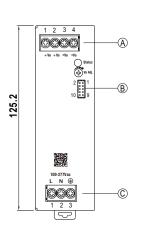
Pin No.	Assignment
1,2	DC OK
3	GND(Current sharing)
4	CS(Current sharing)
5,7	GND_AUX
6	D-
8	D+
9	RC
10	5V_AUX

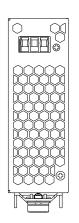


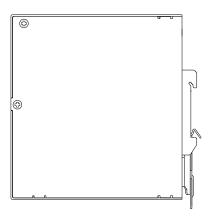
(A): Terminal Pin No. Assignment

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









©: Terminal Pin No.Assignment

Pin No.	Assignment	
1	AC/L or DC Input +Vin	
2	AC/N or DC Input -Vin	
3	FG ⊕	

#### ■ Recommend Wiring

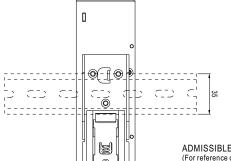
		AC Input T.B	DC Output T.B	Signal connector
Solid Wire		6mm² max.	6mm² max.	1.5mm² max.
A.W.G	XDR-240-12	20~10 AWG	14~10 AWG	- 24~16 AWG
	XDR-240-24/36/48		18~10 AWG	
Wire Stripping Length		7~8mm	7~8mm	8~9mm
Screw Terminal Torque		5 Lb-In	5 Lb-In	1

#### ■ Accessory List

Communication interface mating wire (standard accessory)

No.		Quantity	
1	Mating wire	H20J1-10 or equivalent	1pcs/per model

#### ■ Installation Instruction



This series fits DIN rail TS35/7.5 or TS35/15. For installation details, please refer to the Instruction manual.

ADMISSIBLE DIN-RAIL:TS35/7.5 OR TS35/15 (For reference only. Not included with unit.)

#### ■ Installation Manual

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