



Наличие и актуальные цены на

TDR-960-24

<https://www.mean-well.ru/store/TDR-960-24/>



Features :

- Three-Phase 340 ~ 550VAC wide range input (Dual phase operation possible)
- Width only 110mm
- Built-in active PFC function compliance to BS EN/EN61000-3-2
- High efficiency 94.5% and low power dissipation
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Built-in constant current limiting circuit
- Can be installed on DIN rail TS-35/7.5 or 15
- UL508(industrial control equipment)approved
- BS EN/EN61000-6-2(BS EN/EN50082-2) industrial immunity level
- Current sharing up to 3840W(3+1)
- Built-in DC OK relay contact
- 100% full load burn-in test
- 3 years warranty

User's Manual



GTIN CODE

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


UL508 TPTC004 IEC62368-1

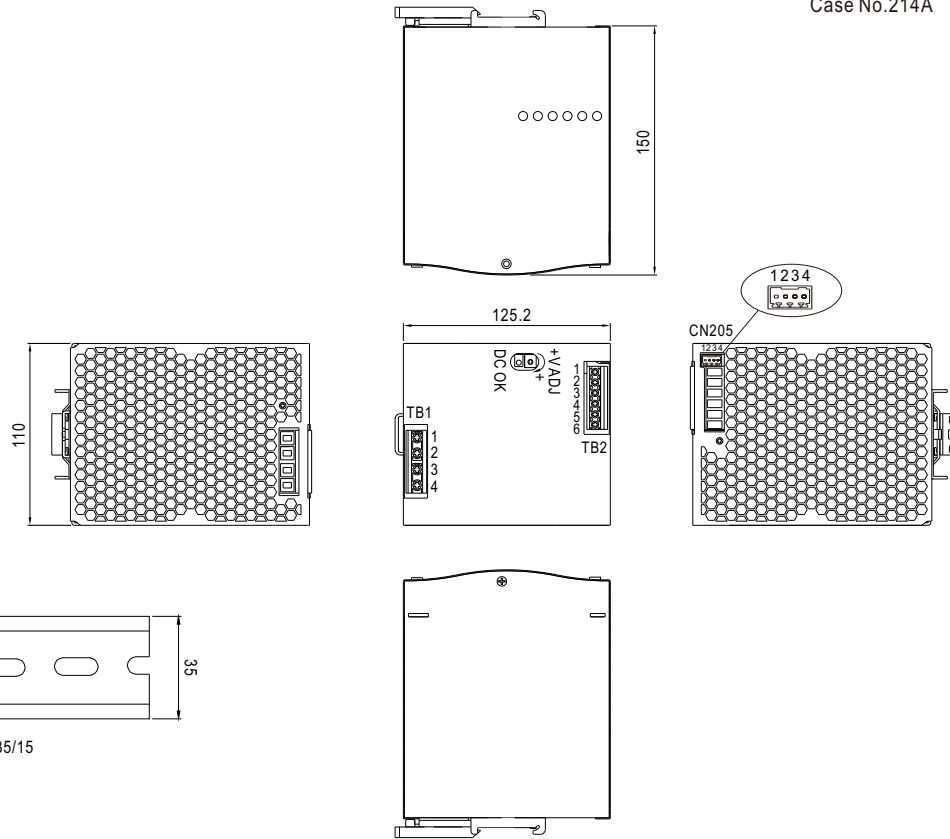
SPECIFICATION

MODEL		TDR-960-24		TDR-960-48	
OUTPUT	DC VOLTAGE	24V		48V	
	RATED CURRENT	40A		20A	
	CURRENT RANGE	0 ~ 40A		0 ~ 20A	
	RATED POWER	960W		960W	
	RIPPLE & NOISE (max.) <small>Note.2</small>	180mVp-p		250mVp-p	
	VOLTAGE ADJ. RANGE	24 ~ 28V		48 ~ 55V	
	VOLTAGE TOLERANCE <small>Note.3</small>	± 1.0%		± 1.0%	
	LINE REGULATION	± 0.5%		± 0.5%	
	LOAD REGULATION	± 1.0%		± 1.0%	
	SETUP, RISE TIME	1000ms, 100ms/400VAC		800ms, 100ms/500VAC at full load	
	HOLD UP TIME (Typ.)	12ms / 400VAC		14ms / 500VAC at full load	
INPUT	VOLTAGE RANGE <small>Note.4</small>	Three-Phase 340 ~ 550VAC (Dual phase operation possible) 480 ~ 780VDC			
	FREQUENCY RANGE	47 ~ 63Hz			
	POWER FACTOR (Typ.)	PF≥0.88/400VAC PF≥0.86/500VAC at full load			
	EFFICIENCY (Typ.)	94%		94.5%	
	AC CURRENT (Typ.)	2A/400VAC		1.4A/500VAC	
	INRUSH CURRENT (Typ.)	COLD START 60A			
	LEAKAGE CURRENT	<3.5mA / 530VAC			
PROTECTION	OVERLOAD	105 ~ 130% rated output power Protection type : Constant current limiting, unit will shut down after 3 sec. ,re-power on to recover			
	OVER VOLTAGE	29 ~ 33V		56 ~ 65V	
		Protection type : Shut down o/p voltage, re-power on to recover			
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down			
FUNCTION	DC OK REALY CONTACT RATINGS (max.)	60Vdc/0.3A, 30Vdc/1A, 30Vac/0.5A resistive load			
	CURRENT SHARING	Please refer to function manual			
ENVIRONMENT	WORKING TEMP. <small>Note.5</small>	-30 ~ +70℃ (Refer to "Derating Curve")			
	WORKING HUMIDITY	20 ~ 95% RH non-condensing			
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃ , 10 ~ 95% RH non-condensing			
	TEMP. COEFFICIENT	± 0.03%/℃ (0 ~ 50℃)			
	VIBRATION	Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6			
SAFETY & EMC <small>(Note 6)</small>	SAFETY STANDARDS	UL508, AS/NZS62368.1, EAC TP TC 004 approved, IEC62368-1 CB approved by SIQ; Design refer to BS EN/EN62368-1			
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC O/P-DC OK:0.5KVAC			
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25℃/ 70% RH			
	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32), BS EN/EN61204-3 Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020			
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55024, BS EN/EN61000-6-2 (BS EN/EN50082-2), BS EN/EN61204-3, heavy industry level, EAC TP TC 020			
OTHERS	MTBF	647.1K hrs min. Telcordia SR-332 (Bellcore) ; 59.5K hrs min. MIL-HDBK-217F (25℃)			
	DIMENSION	110*125.2*150mm (W*H*D)			
	PACKING	2.47Kg ; 6pcs/15.8Kg/1.47CUFT			

Mechanical Specification

(Unit: mm , tolerance ± 1 mm)

Case No.214A



ADMISSIBLE DIN-RAIL: TS35/7.5 OR TS35/15

Terminal Pin No. Assignment (TB1)

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

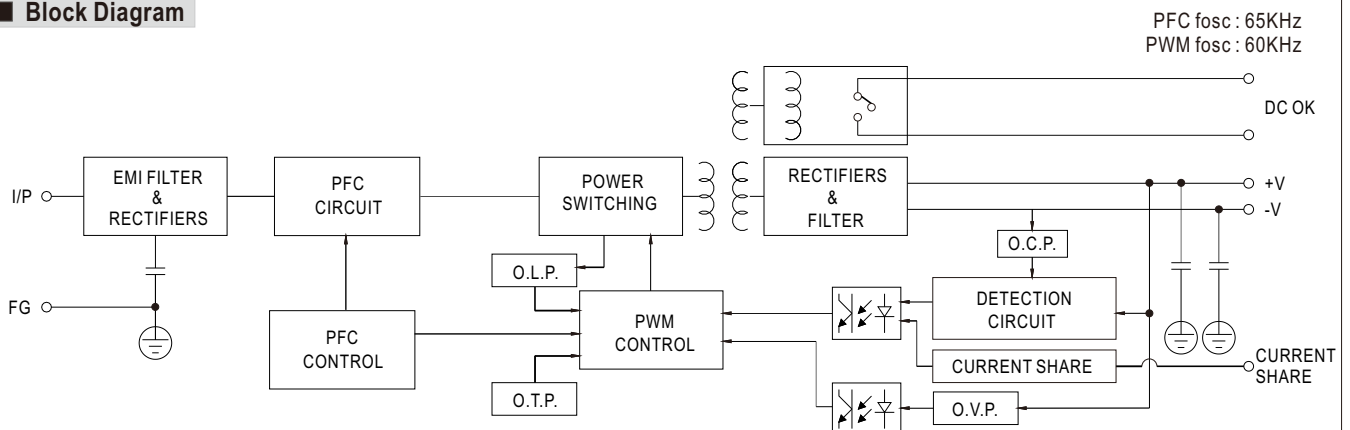
Terminal Pin No. Assignment (TB2)

Pin No.	Assignment
1,2,3	DC OUTPUT +V
4,5,6	DC OUTPUT -V

Control Pin (CN205) : DINKLE ECH250R-04P or equivalent

Pin No.	Assignment	Mating Housing	Wire Diameter
1	P-(Current Share)	DINKLE ESC250V-04P or equivalent (Including in the single package)	0.081~0.517mm ² (28~20AWG)
2	P+(Current Share)		
3,4	DC OK Relay Contact		

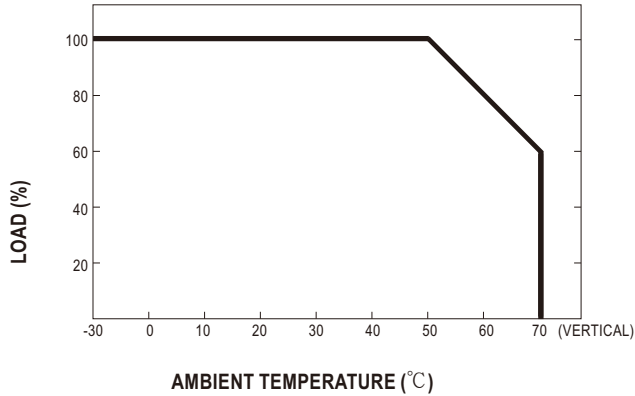
Block Diagram



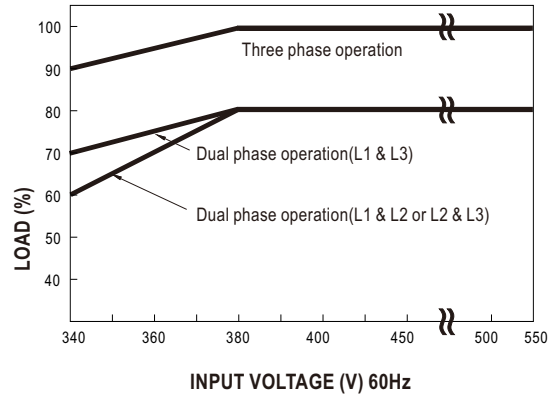
DC OK Relay Contact

Contact Close	PSU turns on / DC OK.
Contact Open	PSU turns off / DC Fail.
Contact Ratings (max.)	30V/1A resistive load.

Derating Curve



Output derating VS input voltage



Function Manual

1. Current sharing

- (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.
- (8) Some minor noise may be heard at light load condition under parallel operation.
This is a normal phenomenon and the performance of the PSU will not be influenced.

