



Features:

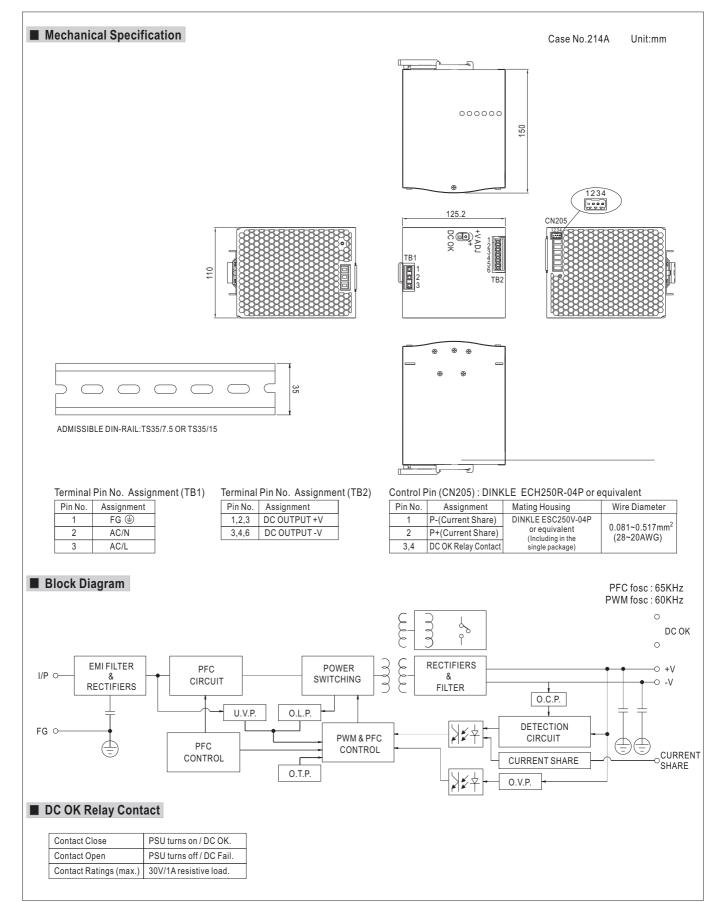
- AC input 180~264VAC only
- 130% peak load capability
- 110mm slim design
- Built-in active PFC function compliance to EN61000-3-2
- High efficiency 94% and low power dissipation
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Built-in constant current limiting circuit
- Can be installed on DIN rail TS-35/7.5 or 15
- UL508(industrial control equipment)approved
- EN61000-6-2(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

SPECIFICATION



DC VOLTAGE RATED CURRENT CURRENT RANGE RATED POWER PEAK CURRENT PEAK POWER Note.6 RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE Note.7 FREQUENCY RANGE POWER FACTOR (Typ.) EFFICIENCY (Typ.)	24 ~ 28V	48V 20A 0 ~ 20A 960W 26A 250mVp-p 48 ~ 55V ±1.0% ±0.5% ±1.0%
CURRENT RANGE RATED POWER PEAK CURRENT PEAK POWER Note.6 RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE POWER FACTOR (Typ.)	0 ~ 40A 960W 52A 1248W (3sec.) 180mVp-p 24 ~ 28V ±1.0% ±0.5% ±1.0% 1000ms, 100ms/230VAC at full load 14ms / 230VAC at full load 180 ~ 264VAC 254 ~ 370VDC	0 ~ 20A 960W 26A 250mVp-p 48 ~ 55V ±1.0% ±0.5%
RATED POWER PEAK CURRENT PEAK POWER Note.6 RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE POWER FACTOR (Typ.)	960W 52A 1248W (3sec.) 180mVp-p 24 ~ 28V ±1.0% ±0.5% ±1.0% 1000ms, 100ms/230VAC at full load 14ms / 230VAC at full load 180 ~ 264VAC 254 ~ 370VDC	960W 26A 250mVp-p 48 ~ 55V ±1.0% ±0.5%
PEAK CURRENT PEAK POWER Note.6 RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE Note.7 FREQUENCY RANGE POWER FACTOR (Typ.)	52A 1248W (3sec.) 180mVp-p 24 ~ 28V ±1.0% ±0.5% ±1.0% 1000ms, 100ms/230VAC at full load 14ms / 230VAC at full load 180 ~ 264VAC 254 ~ 370VDC	250mVp-p 48 ~ 55V ±1.0% ±0.5%
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VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE Note.7 FREQUENCY RANGE POWER FACTOR (Typ.)	24 ~ 28V ±1.0% ±0.5% ±1.0% 1000ms, 100ms/230VAC at full load 14ms / 230VAC at full load 180 ~ 264VAC 254 ~ 370VDC	48 ~ 55V ±1.0% ±0.5%
VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE Note.7 FREQUENCY RANGE POWER FACTOR (Typ.)	±1.0% ±0.5% ±1.0% 1000ms, 100ms/230VAC at full load 14ms / 230VAC at full load 180 ~ 264VAC 254 ~ 370VDC	±1.0% ±0.5%
LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE Note.7 FREQUENCY RANGE POWER FACTOR (Typ.)	±0.5% ±1.0% 1000ms, 100ms/230VAC at full load 14ms / 230VAC at full load 180 ~ 264VAC 254 ~ 370VDC	±0.5%
LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE Note.7 FREQUENCY RANGE POWER FACTOR (Typ.)	±1.0% 1000ms, 100ms/230VAC at full load 14ms / 230VAC at full load 180 ~ 264VAC 254 ~ 370VDC	
SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE Note.7 FREQUENCY RANGE POWER FACTOR (Typ.)	1000ms, 100ms/230VAC at full load 14ms / 230VAC at full load 180 ~ 264VAC 254 ~ 370VDC	±1.0%
HOLD UP TIME (Typ.) VOLTAGE RANGE Note.7 FREQUENCY RANGE POWER FACTOR (Typ.)	14ms / 230VAC at full load 180 ~ 264VAC 254 ~ 370VDC	
VOLTAGE RANGE Note.7 FREQUENCY RANGE POWER FACTOR (Typ.)	180 ~ 264VAC 254 ~ 370VDC	
FREQUENCY RANGE POWER FACTOR (Typ.)		
POWER FACTOR (Typ.)	47 ~ 63Hz	
	47 ~ 63Hz	
EFFICIENCY (Typ.)	PF ≥ 0.95/230VAC at full load	
	94%	94%
AC CURRENT (Typ.)	6A/230VAC	
NRUSH CURRENT (Typ.)	COLD START 50A / 230VAC	
LEAKAGE CURRENT	<3.5mA / 240VAC	
OVERLOAD	Normally works within 105 ~ 130% rated output power for more than 3 seconds and then shut down o/p voltage with auto-recover	
	after 30 seconds if the peak load condition is removed	
	Constant current limiting within 130 ~ 150% rated output power for more than 3 seconds and then shut down o/p voltage, re-power	
	on to recover	
OVER VOLTAGE OVER TEMPERATURE	29 ~ 33V	56 ~ 65V
	Protection type: Shut down o/p voltage, with auto-recovery or re-power on to recover	
	90°C ±5°C (TSW) detect on heatsink of power switch	
	Protection type: Shut down o/p voltage, recovers automatically after temperature goes down	
DC OK REALY CONTACT RATINGS (max.)	60Vdc/0.3A, 30Vdc/1A, 30Vac/0.5A resistive load	
CURRENT SHARING	Please refer to function manual	
WORKING TEMP. Note.5	-30 ~ +70°C (Refer to "Derating Curve")	
WORKING HUMIDITY	20 ~ 95% RH non-condensing	
STORAGE TEMP., HUMIDITY -40 ~ +85°C, 10 ~ 95% RH		
		VIBRATION
SAFETY STANDARDS	UL508, TUV EN60950-1 approved	
WITHSTAND VOLTAGE	I/P-O/P:3KVAC	
SOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C / 70% RH	
EMC EMISSION Note.8	Compliance to EN55022 (CISPR22), EN61204-3 Conduction class B, Radiation class A, EN61000-3-2,-3	
EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2 (EN50082-2), EN61204-3, heavy industry level, criteria A	
MTBF	69.8K hrs min. MIL-HDBK-217F (25°C)	
DIMENSION	110*125.2*150mm (W*H*D)	
PACKING	2.47Kg ; 6pcs/15.8Kg/1.55CUFT	
Ripple & noise are measure Tolerance : includes set up The power supply is conside EMC directives. Installation clearances : 40n In case the adjacent device 3 seconds peak power max Derating may be needed un	od at 20MHz of bandwidth by using a 12" twist tolerance, line regulation and load regulation. ered a component which will be installed into a nm on top, 20mm on the bottom, 5mm on the is a heat source, 15mm clearance is recomm c. and the average output power should not ex- tader low input voltage. Please check the derati	ted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. a final equipment. The final equipment must be re-confirmed that it still meets left and right side are recommended when loaded permanently with full power ended. ceed the rate power.
N LI D D D C N N S E E M D P 1 2 3 4 5 6 7	RUSH CURRENT (Typ.) EAKAGE CURRENT VERLOAD VER VOLTAGE VER TEMPERATURE COK REALY CONTACT RATINGS (max.) URRENT SHARING ORKING TEMP. Note.5 ORKING HUMIDITY TORAGE TEMP., HUMIDITY EMP. COEFFICIENT IBRATION AFETY STANDARDS ITHSTAND VOLTAGE IOLATION RESISTANCE MC EMISSION Note.8 MC IMMUNITY TBF IMENSION ACKING 1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance : includes set up 4. The power supply is consid EMC directives. 5. Installation clearances : 40r In case the adjacent device 5. 3 seconds peak power max 7. Derating may be needed ur	IRUSH CURRENT (Typ.) EAKAGE CURRENT 3.5mA / 240VAC Normally works within 105 ~ 130% rated output after 30 seconds if the peak load condition is retorn to recover 29 ~ 33V Protection type: Shut down o/p voltage, with a 90°C±5°C (TSW) detect on heatsink of powers Protection type: Shut down o/p voltage, recover 60Vdc/0.3A, 30Vdc/1A, 30Vac/0.5A resistive load condition is retorn to recover 29 ~ 33V Protection type: Shut down o/p voltage, with a 90°C±5°C (TSW) detect on heatsink of powers Protection type: Shut down o/p voltage, recover 60Vdc/0.3A, 30Vdc/1A, 30Vac/0.5A resistive load condition is retorn to the protection type: Shut down o/p voltage, with a 90°C±5°C (TSW) detect on heatsink of powers Protection type: Shut down o/p voltage, recover 60Vdc/0.3A, 30Vdc/1A, 30Vac/0.5A resistive load condition type: Shut down o/p voltage, recover 60Vdc/0.3A, 30Vdc/1A, 30Vac/0.5A resistive load condition type: Shut down o/p voltage, recover 60Vdc/0.3A, 30Vdc/1A, 30Vac/0.5A resistive load condition type: Shut down o/p voltage, recover 60Vdc/0.3A, 30Vdc/1A, 30Vac/0.5A resistive load condition type: Shut down o/p voltage, recover 60Vdc/0.3A, 30Vdc/1A, 30Vac/0.5A resistive load condition type: Shut down o/p voltage, recover 60Vdc/0.3A, 30Vdc/1A, 30Vac/0.5A resistive load condition type: Shut down o/p voltage, recover 60Vdc/0.3A, 30Vdc/1A, 30Vac/0.5A resistive load condition type: Shut down o/p voltage, recover 60Vdc/0.3A, 30Vdc/1A, 30Vac/0.5A resistive load condition type: Shut down o/p voltage, with a 10Vdc/0.3A, 30Vdc/1A, 30Vac/0.5A resistive load condition type: Shut down o/p voltage, with a 10Vdc/0.3A, 30Vdc/1A, 30Vdc/0.3A, 30Vd







■ Peak Loading (2) (1) 1248W --1248W 960W 480W 50 sec. 3 sec. 15 sec. 3 sec. ■ Derating Curve ■ Output derating VS input voltage 100 130 90 100 80 80 For 3 sec. (typ.) Continuous 70 60 LOAD (%) LOAD (%) 60 40 20 4١ 70 (VERTICAL) 50 60 -30 180 AMBIENT TEMPERATURE (°C) **INPUT VOLTAGE (V) 60Hz**

■ 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.

