



BATTERY CHARGER COMPACT SERIES

BPR 0324 S

Technical documentation



FEATURES

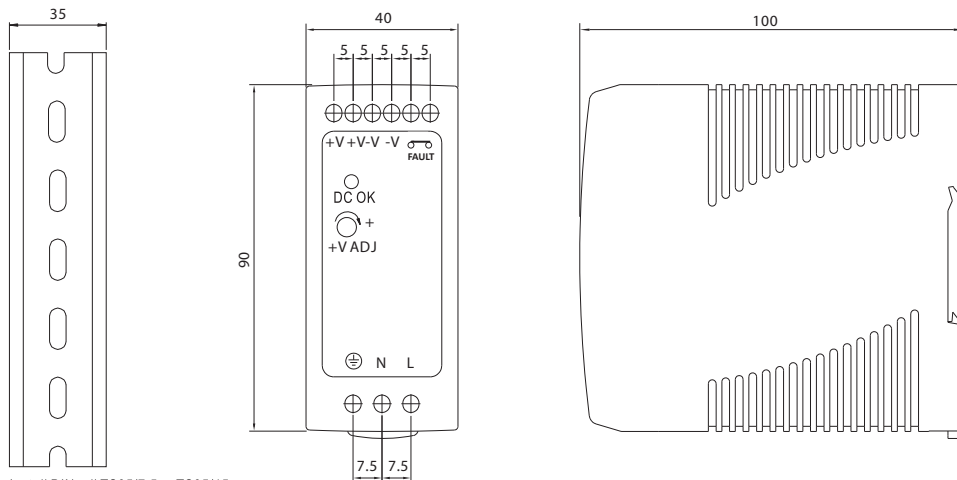
- Protections: Short circuit/ Overload/ Over voltage
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- LED indicator for power on
- FAULT contact
- No load power consumption < 0.75W
- 100% full load burn-in test
- 3 years warranty

OUTPUT	DC VOLTAGE	24 V
	RATED CURRENT	2.5 A
	CURRENT RANGE	0 ~ 2.5 A
	RATED POWER	60 W
	RIPPLE 1 NOISE (Max.)	150mVp-p
	VOLTAGE ADJ. RANGE	24 ~ 30 V
	LINE REGULATION	(+/-) 1.0%
	LOAD REGULATION	(+/-) 1.0%
	SETUP, RISE TIME	500ms, 30ms/230V _{AC} 500ms, 30ms/115V _{AC} at full load
	HOLD UP TIME (Typ.)	50ms/230V _{AC} 20ms/115V _{AC} at full load
INPUT	⚠ INFORMATION	Please adjust output voltage required with the potentiometer according to the battery charger
	VOLTAGE RANGE	85 ~ 264V _{AC} 120 ~ 370V _{DC}
	FREQUENCY RANGE	47 ~ 63Hz
	EFFICIENCY (Typ.)	88%
	AC CURRENT (Typ.)	1.8A/115V _{AC} 1A/230V _{AC}
	INRUSH CURRENT (Typ.)	Cold start 30A/115V _{AC} 60A/230V _{AC}
PROTECTION	LEAKAGE CURRENT	<1mA / 240V _{AC}
	OVERLOAD	105 ~ 150% rated output power Protection type: constant current limiting with auto-recovery after fault condition is removed
	OVER VOLTAGE	31.2 - 36V Protection type : shut down o/p voltage, re-power on to recover
FUNCTIONS	FAULT RELAY CONTACT	30V/1A resistive / contact open = NO FAULT / contact closed = FAULT
ENVIRONMENT	WORKING TEMP.	(-)20 ~ (+)70°C (Refer to output load derating curve)
	WORKING HUMIDITY	20 ~ 90% RH non condensing
	STORAGE TEMP, HUMIDITY	(-)40 ~ (+)85°C, 10 ~ 95% RH
	TEMP. COEFFICIENT	(+/-)0.03%/°C (0 ~ 50°C)
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes ; Mounting : Compliance with IEC60068-2-6
SAFETY & EMC	SAFETY STANDARDS	UL508, UL60950-1, TUV EN60950-1 approved
	WITHSTAND VOLTAGE	I/P-O/P:3KV _{AC} I/P-FG:1.5KV _{AC} O/P-FG:0.5KV _{AC}
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:>100M Ohm / 500V _{DC} / 25°C / 70% RH
	EMI CONDUCTION & RADIATION	Compliance with EN55011, EN55022 (CISPR22), EN61204-3 Class B
	HARMONIC CURRENT	Compliance with EN61000-3-2,-3
OTHERS	EMS IMMUNITY	Compliance with EN61000-4-2, 3, 4, 5, 6, 8, 11, ENV50204, EN55024, EN61000-6-2, EN61204-3, heavy industry level, criteria A
	MTBF	299.2Khrs min MIL-HDBK-217F (25°C)
	DIMENSION	40 x 90 x 100mm (W x H x D)
NOTES	PACKING	0.33kg; 42pcs/14.8kg/0,82CUFT
	All parameters NOT specially mentioned are measured at 230V _{AC} input, rated load and 25°C of ambient temperature.	
	Ripple and noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.	
	The battery charger 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	
	Length of set up time is measured at cold first start. Turning ON/OFF the battery charger very quick may lead to increase of the set up time.	



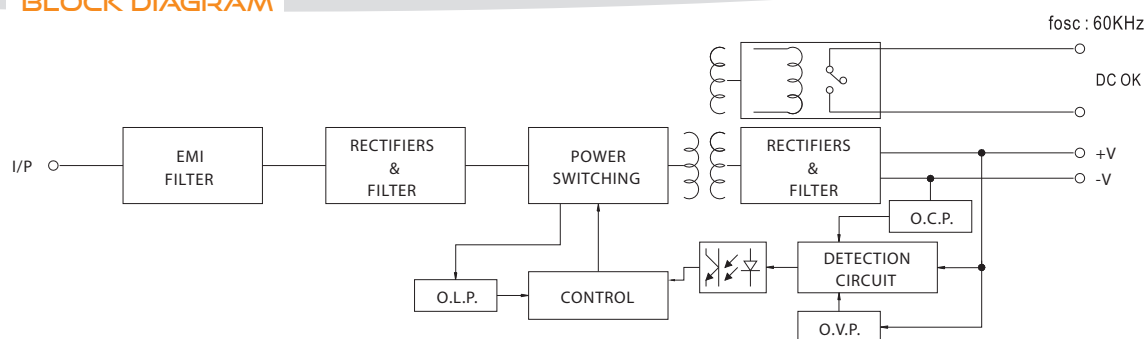
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MECHANICAL SPECIFICATIONS

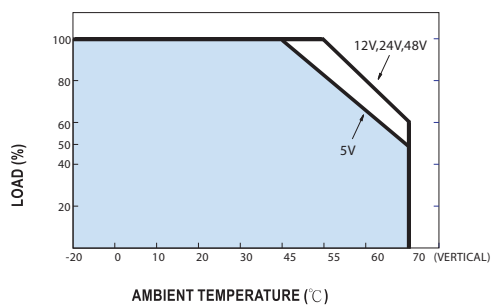


Install DIN rail TS35/7.5 or TS35/15

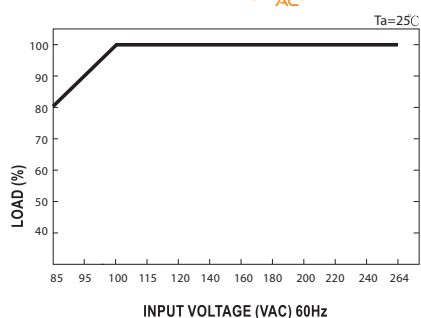
BLOCK DIAGRAM



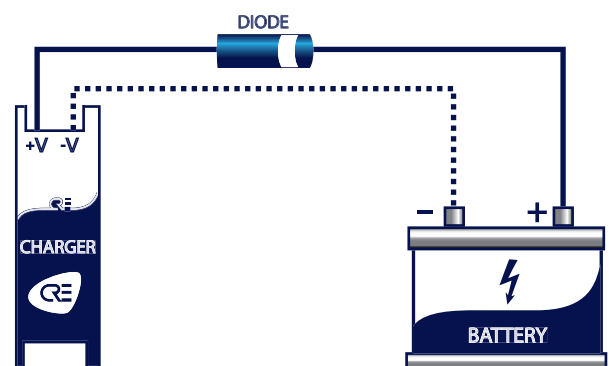
DERATING CURVE



OUTPUT DERATING VS INPUT VOLTAGE (V_{AC})



BP DIODE KIT PROVIDED WITH CHARGER



ASSEMBLY INSTRUCTIONS

P/N: BPX DIODE