

BP RANGE



- AC input range selectable by switch
- Protections: Short circuit/ Overload/ Over voltage/ Over temperature
- Cooling by free air convection
- LED indicator for power on
- Can be installed on DIN rail TS-35/7.5 or TS-35/15
- 100% full load burn-in test
- Fixed switching frequency at 55kHz (120kHz for BP1024M)

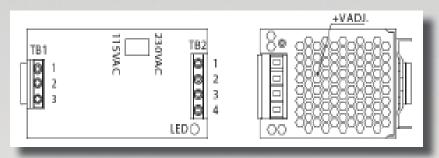
		BP 1024M	BP 2024M	BP 2024T	BP 4024T
	DC VOLTAGE	24V	24V	24V	24V
ОИТРИТ	RATED CURRENT	10A	20A	20A	40A
	CURRENT RANGE	0~10A	0 ~ 20A	0 ~ 20A	0 ~ 40A
	RATED POWER	240W	480 W	480W	960W
	RIPPLE NOISE (Max.)	80mVp-p	120mVp-p	80mVp-p	80mVp-p
	VOLTAGE ADJ. RANGE	24 ~28V (26.4V)	24 ~28V (26.4V)	24 ~28V (26.4V)	24 ~28V (26.4V)
	LINE REGULATION	(+/-) 0.5%			
	LOAD REGULATION	(+/-) 1.0%		(+/-) 0.5%	(+/-) 0.5%
	EGAD REGULATION			(1) 10.5%	200ms, 60ms/400VAC
	SETUP, RISE TIME	800ms, 40ms/230VAC 800ms, 40ms/115VAC at full load	1200ms, 40ms/230VAC at full load		200ms, 60ms/500VAC at full load
	HOLD UP TIME (Typ.)	24ms/230VAC 24ms/115VAC at full load	16ms/230VAC at full load		
	INFORMATION	ease adjust output voltage required with the potentiometer according to the battery charger			
INPUT	VOLTAGE RANGE	85 ~ 264VAC 120 ~ 370VDC	180 ~ 264VAC 250 ~ 370VDC	3-Phase 340~ 550VAC (Dual phase operation possible in connecting L1L3) 480~ 780VDC	
	FREQUENCY RANGE	47 ~ 63Hz			
	EFFICIENCY (Typ.)	84%	89%	89%	91%
	AC CURRENT (Typ.)	2.8A/115VAC 1.4A/230VAC	4A/230VAC	1.7A/400VAC 1.3A/500VAC	2A/400VAC 1.6A/500VAC
	INRUSH CURRENT (Typ.)	Cold start 27A/115VAC 45A/230VAC	Cold start 40A/230VAC	Cold start 50A	
	LEAKAGE CURRENT	<3.5mA / 240VAC		<3.5mA / 530VAC	
PROTECTION		105 ~ 150% 105 ~ 125%			
	OVERLOAD (Rated output power)	Protection type: constant current limiting with auto-recovery after fault condition is removed			
	OVER VOLTAGE	30~36V			
		Protection type : shut down o/p voltage, re-power on to recover			
	OVER TEMPERATURE	100°C (+/-)5°C (TSW1) 110°C (+/-)5°C (TSW1) 110°C (+/-)5°C (TSW1)			
	Protection type: shut down o/p voltage, recovers automatically after temperature goes down WORKING TEMPERATURE (130 × (1)70°C (130 × (1)70°				
ENVIRONMENT	(Refer to output load derating curve)	(-)10 ~ (+)70°C	(-)20 ~ (+)70°C	(-)20 ~ (+)70°C	(-)20 ~ (+)60°C
	WORKING HUMIDITY	20 ~ 90% RH non condensing			
	STORAGE TEMP, HUMIDITY	(-)20 ~ (+)85°C, 10 ~ 95% RH (-)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	WITHSTAND VOLTAGE	I/P-O/P:3KV _{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			
	EMT IMMUNITY	Compliance with EN61000-4-2, 3, 4, 5, 6, 8, 11, ENV50204, EN55024, EN61000-6-2, EN61204-3, heavy industry level, criteria A			
OTHERS	MTBF	289.9hrs min MIL-HDBK-217F (25°C)	180.9Khrs min MIL-HDBK-217F (25°C)	91.1Khrs min MIL-HDBK-217F (25°C)	122.5Khrs min MIL-HDBK-217F (25°C)
	DIMENSION (W x H x D)	125.5 x 125.2 x 100mm	227 x 125.2 x 100mm		276 x 125.2 x 100mm
	PACKING	1.2kg	2.4kg	2.5kg	3.3kg
NOTES	All parameters NOT specially mentioned are measured at 230Vac (400Vac for 2024T and 4024T) input, rated load and 25°C of ambient temperature.				
	Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair wire terminated with a 0.1 uf & 47 uf parallel capacitor.				
	The battery chargers is considered a component which will be installed into final equipment. The final equipment must be re-confirmed that it still meets EMC directives.				
	Installation clearances: 40mm on top, 20mm on 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.				
	Derating may be needed under low input voltage. Please check the derating curve for more details.				
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BPRANGE

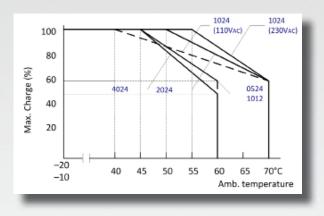


MECHANICAL SPECIFICATIONS

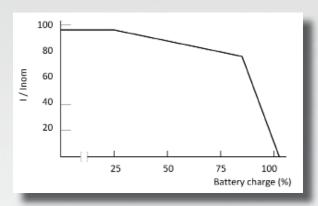


ALARM for BP4024T

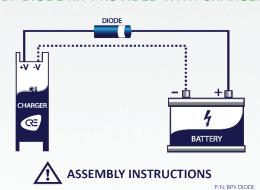
DERATING CURVE/TEMPERATURE

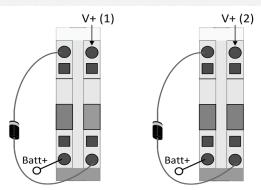


OUTPUT DERATING vs INPUT VOLTAGE (VAC)



BP DIODE KIT PROVIDED WITH CHARGER





For BP4024T



