

USER MANUAL

for SKU: 6277and SKU: 6278







CBCEK

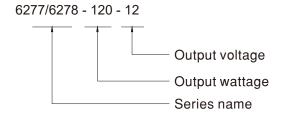
Features

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- · Can be installed on DIN rail TS-35/7.5 or 15
- UL 508 (industrial control equipment) approved
- · BS EN/EN61000-6-2(BS EN/EN50082-2) industrial immunity level
- 100% full load burn-in test
- · 2 years warranty

■ Description

SKU:6277/6278 is one economical slim 120 W Din rail power supply series, adapt to installed on TS-35/7.5 or TS-35/15 mounting rails. The body is designed 32mm in width, which allows space saving inside the cabinets. The entire series adopts the full range AC input from 90VAC to 264VAC and conforms to BS EN/EN61000-3-2, the norm the European union regulates for harmonic current. SKU:6277/6278 is designed with metal housing that enhances the unit's power dissipation. With working efficiency up to 89%, the entire series can operate at the ambient temperature between -20°C and 70°C under air convection. It is equipped with constant current mode for over-load protection, fitting various inductive control apparatus (UL508, TUV BS EN/EN62368-1, and etc.) make SKU:6277/6278 a very competitive power supply solution for industrial applications.

Model Encoding



Applications

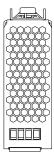
- · Industrial control system
- Semiconductor fabrication equipment
- Factory automation
- Electro-mechanical apparatus

SPECIFICATION

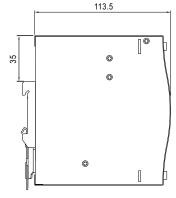
MODEL		6277-120-12	6278-120-24		
	DC VOLTAGE	12V	24V		
OUTPUT	RATED CURRENT	10A	5A		
	CURRENT RANGE	0 ~ 10A	0 ~ 5A		
	RATED POWER	120W	120W		
	RIPPLE & NOISE (max.) Note.2		120mVp-p		
	VOLTAGE ADJ. RANGE	12 ~ 14V	24 ~ 28V		
	VOLTAGE TOLERANCE Note.3		±1.0%		
	LINE REGULATION	±0.5%	±0.5%		
	LOAD REGULATION	±1.0%	±1.0%		
	SETUP, RISE TIME		ns/115VAC at full load		
	HOLD UP TIME (Typ.)	16ms/230VAC 10ms/115VAC at full load			
		90 ~ 264VAC 127 ~ 370VDC [DC input operation possible by connecting AC/L(+), AC/N(-)]			
	FREQUENCY RANGE	47 ~ 63Hz	iput operation possible by connecting AO/L(j, AO/N(-)j	
	EFFICIENCY (Typ.)	85.5%	88%	89%	
INPUT	AC CURRENT (Typ.)	2.25A/115VAC 1.3A/230VAC	00 /0	0070	
	INRUSH CURRENT (Typ.)	2.25A/115VAC 1.3A/230VAC 20A/115VAC 35A/230VAC			
	LEAKAGE CURRENT				
	LLANAGE CURRENT	<1mA / 240VAC 105 ~ 130% rated output nower			
	OVERLOAD	105 ~ 130% rated output power Protection type: Constant current limiting, recovers automatically after fault condition is removed			
	OVER VOLTAGE	14 ~ 17V			
PROTECTION		** ***	29 ~ 33V	56 ~ 65V	
	OVED TEMPEDATURE	Protection type: Shut down o/p voltage, re-power on to recover			
	OVER TEMPERATURE		Shut down o/p voltage, re-power on to recover		
	WORKING TEMP.	-20 ~ +70°C (Refer to "Derating Curve")			
	WORKING HUMIDITY	20 ~ 95% RH non-condensing			
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH			
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)			
	VIBRATION	Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6			
	SAFETY STANDARDS	UL508, TUV BS EN/EN62368-1, EAC TP TC 004 approved; (meet BS EN/EN60204-1)			
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC			
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C / 70% RH			
(Note 4)	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				
	MTBF			HDBK-217F (25°C)	
OTHERS	DIMENSION	40*125.2*113.5mm (W*H*D)	SEE (Benedicy), Teeler (III)	- TIBBIC 2111 (20 °)	
	PACKING	0.6Kg; 20pcs/13Kg/1.16CUFT			
NOTE			put, rated load and 25 $^{\circ}\mathrm{C}$ of ambient tempe	rature.	
NOTE.	2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.				
	3. Tolerance : includes set up	se: 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.				
	5. 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.				
	6. Derating may be needed under low input voltage. Please check the derating curve for more details. 7. 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				
				overtine eliticale la	
				perating altitude higher than	

■ Block Diagram EMI FILTER RECTIFIERS POWER SWITCHING & FILTER & RECTIFIERS O.C.P. 0.L.P. DETECTION CIRCUIT FG O PWM O.T.P. CONTROL ■ Derating Curve ■ Static Characteristics -230VAC 100 12V,24V,48V 100 90 80 115VAC 12V (115VAC only) 70 60 50 LOAD (%) LOAD (%) 60 40 20 -20 -10 0 40 45 50 70 (VERTICAL) 60 100 125 135 145 155 165 **175** 180 200 230 264 AMBIENT TEMPERATURE ($^{\circ}$ C) INPUT VOLTAGE (V) 60Hz

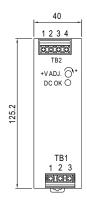
■ Mechanical Specification



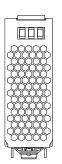
Top View



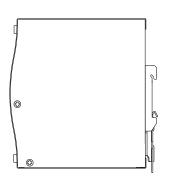
Side View



Front View



Bottom View



Side View

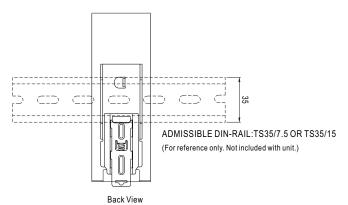
Terminal Pin No. Assignment (TB1)

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

Terminal Pin No. Assignment (TB2)

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

■ Installation Instruction



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

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