

● Product Features



- ✓ 85~264Vac/100~370VDC global input voltage range;
- ✓ Dimension: 35*90*54.5mm
- ✓ No load power Consumption<0.4W
- ✓ Built-in Overvoltage/overload/short circuit protection
- ✓ Air convection cooling, -30°C to +70°C working temperature range
- ✓ 3KV insulated voltage
- ✓ 100% Full load aging test
- ✓ 3Years warranty

● Applications

Industrial Control system
Railway industry

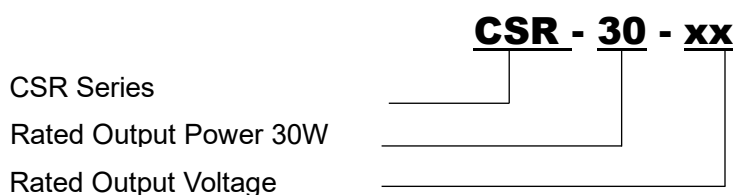
● Quality Standards

EMC compliance with IEC/EN62368/EN61000-4\CISPR32/EN55032/UL2368

● Product Description

CSR-30 is a single output 30W Plastic Din Rail power supply, 85~264V wide input voltage range, support 5V,12V,15V,24V and 48V output options. Very low No load power consumption(<0.4W), 1mA low leakage current. Compact size (35*90*54.5mm). Isolated voltage up to 3KV. High reliability and good EMC performance.

● Model Encoding



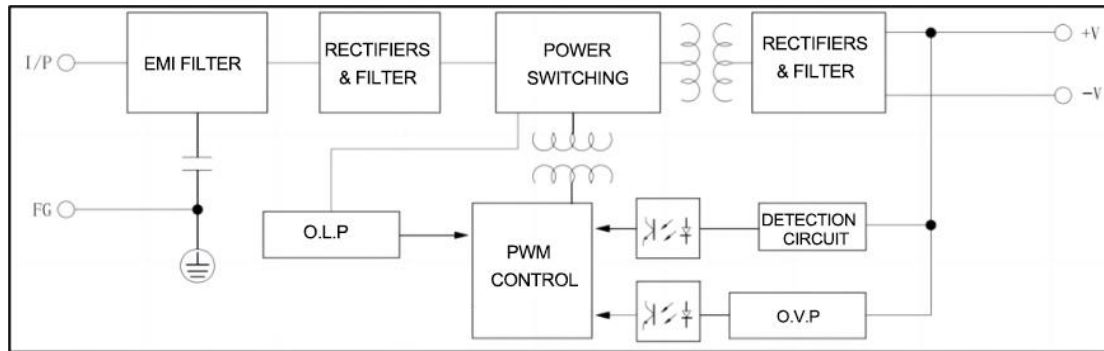
● Electronic Specification

Model No		CSR-30-5	CSR-30-12	CSR-30-15	CSR-30-24	CSR-30-48
INPUT	Input voltage Range	85~264VAC/100~370VDC				
	Rated Input voltage	100-240VAC				
	Input Current	0.5A/115VAC 0.35A/230VAC				
	Inrush Current	30A/115VAC 60A/230VAC Cold Start				
	Frequency	47-63HZ				

Datasheet for DIN rail CSR Series CSR-30 Series

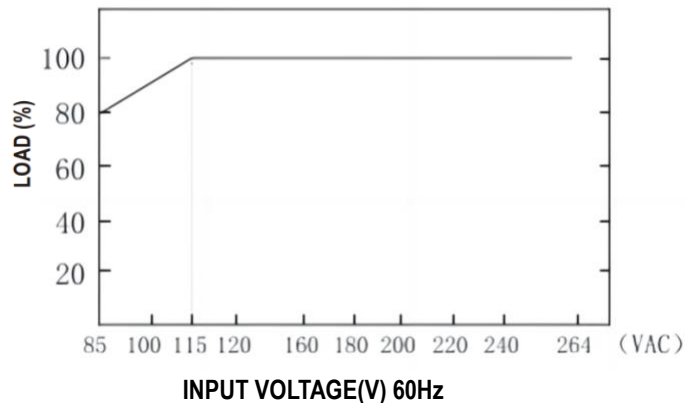
	Leakage current		<1mA/230VAC/50HZ			
OUTPUT	Output voltage	5V	12V	15V	24V	48V
	Output voltage adjustable range(V)	5~5.2V	11.3~12.4V	13.7~16.3V	23.1~25.9V	44~49.7V
	Rated Current	3A	2.5A	2A	1.25A	0.625A
	Output Power	15W	30W	30W	30W	30W
	Efficiency	75%	83%	85%	86%	88%
	Ripple & Noise	100mVp-p	120mVp-p	120mVp-p	150mVp-p	120mVp-p
	Set up, Rise time(Typ)	1300ms,30ms/230VAC, 2500mS, 50mS/115VAC (full load)				
	Hold up time	50ms/230VAC, 15ms/115VAC(full load)				
	Line Regulation	±1%				
	Load Regulation	±1%				
	Voltage tolerance	±2.0%				
	ENVIRONMENT	Working Temp&Humidity	-30~+70°C(pls refer to derating curve) ,85%RH max			
Storage Temp&Humidity		-40~+85°C 10%~95%RH, non-condensing				
Temperature Coefficient		0.03%/(0°C-50°C)				
Vibration		Component:10~500Hz, 2G 10min./1cycle, 60min. Six cycles along X,Y,Z axs;				
EMC	EMC Emission	Compliance to EN55032(CISPR32), EN55011				
	ESD	Compliance to EN61000-4 level 2 Contact ±4kV/level 3 Air ±8kV				
	Radiated	IEC/EN 61000-4-3				
	EFT/Burst	IEC/EN 61000-4-4 level 4 2kV				
	Surge	IEC/EN61000-4-5 Level 4 2KV				
SAFETY	Safety standards	Compliance to UL1012				
	Withstand voltage	I/P-O/P:3.0KVAC(min)				
	Isolation Resistance	I/P-O/P:100M ohms/500VDC 25°C 70%RH				
PROTECTION	Overvoltage	≤7.5VDC	≤16VDC	≤22.5VDC	≤36VDC	≤67.2VDC
		Shut-down output voltage, Re-power on to recover				
	Overload	≥110% Auto-recovery after fault condition is removed				
	Short Circuit	Hiccup mode, Auto-recovery after fault condition is removed				
OTHERS	SIZE	35*90*54.5mm(W*H*D)				
	MTBF	200K hrs min. MIL-HDBK-217F(25°C)				
NOTE	1. All parameters NOT Specially mentioned are measured at 230VAC input, rated load and 25°C ambient temperature, humidity<75% 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. The power supply is considered as an independent unit, but the final equipment still need to re-confirm at that the whole system complies with the EMC directives. 4. EMC tested after 10 minutes working					

● BLOCK DIAGRAM

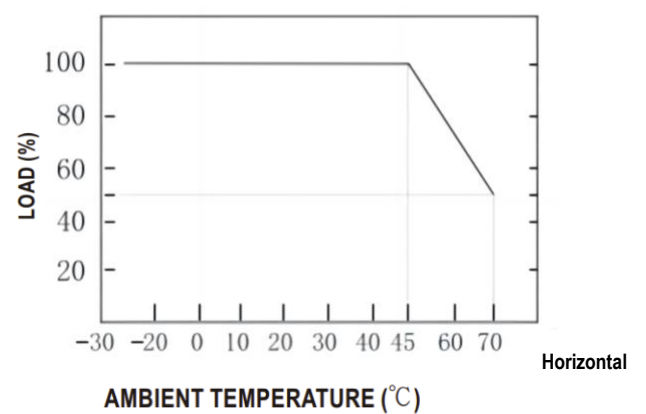


● Derating Curve

■ Output derating VS input voltage.

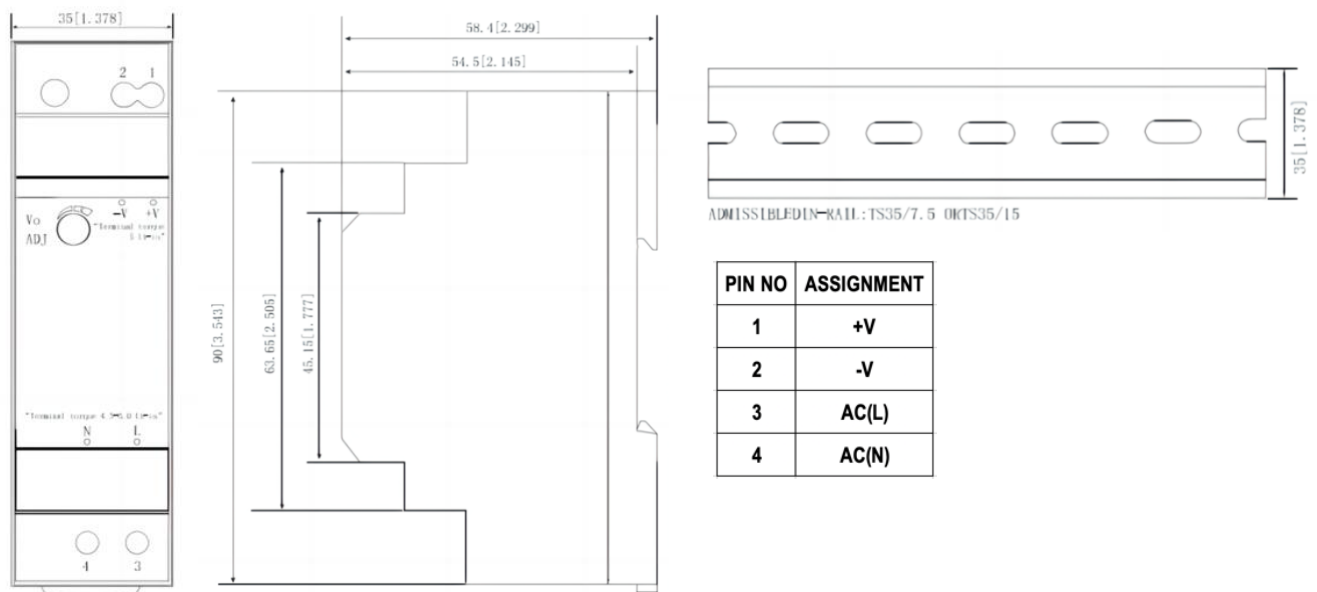


■ Output Load VS temperature



● Mechanical Specification

(unit: mm, tolerance±1mm) Unmarked tolerance: ±0.5mm



● **Product Installation Instructions**

1. During installation, please follow the installation instructions.
2. Before the installation is completed and the power is turned on for trial operation, please check and calibrate the connections on each terminal to ensure that the input and output, AC and DC, positive and negative poles, voltage and current values are correct, and prevent the occurrence of reverse connection and wrong connection to avoid damage to the power supply and final equipment.
3. Before powering on, please use a multimeter to measure whether the live wire, neutral wire and ground wire are short-circuited, and whether the output terminal is short-circuited; it is best to start with no load when powering on.
4. Do not exceed the rated power of the power supply to avoid affecting the reliability of the product. If the output parameters of the power supply need to be changed, please consult our technical department before using the power supply.

● **Transportation & Storage**

1. Transportation:
This packaging is suitable for transported by car, ship, plane, train, etc. During transportation, it should be protected from rain and loaded and unloaded in a civilized manner.
2. Storage:
When the product is not in use, it should be stored in the packaging box. The storage environment temperature and relative humidity should meet the requirements of the product. There should be no corrosive gas or corrosive chemicals in the warehouse, and there should be no strong mechanical vibration, impulse and strong magnetic field. The packaging box should be at least 20cm above the ground and at least 50cm away from the wall, heat source, window or air inlet, and should not be soaked in water. If it has been too long (more than 1 year), it should be re-inspected by professionals before use.