



# ***Introduction of Front -end Power Supply*** ***High efficiency 『PTS162M1212』***

**SANKEN ELECTRIC CO., LTD.**  
<http://www.sanken-ele.co.jp>

---

The material is subject to changes without notice due to improvement of the product.



**Feature**

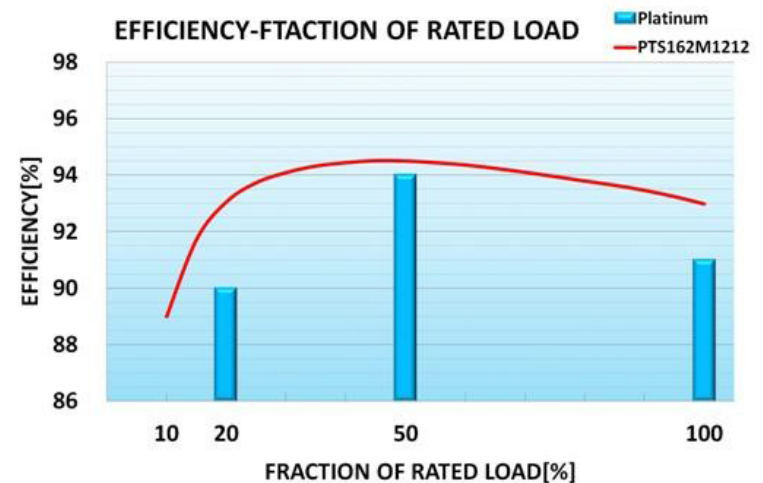
- High efficiency: 80+ Platinum compliance
- High Power Density: The highest level in the world 2.1W/cc
- 1U×2U: Horizontal placement 1U, Vertical placement 2U
- Monitor input/output power and thermal information through I2C communication interface
- Equipped with N+1 redundant operation function by sharing current

**SPEC**

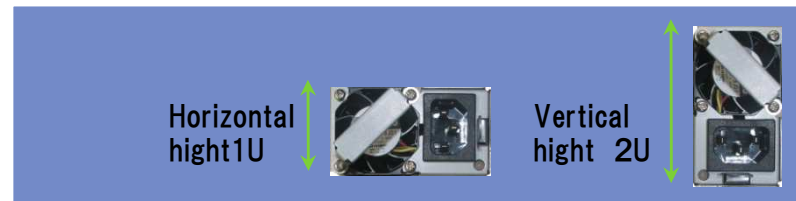
	PT162M1212 (1600W)	
<b>INPUT VOLTAGE</b>	AC90V-132V/AC180-264V	
<b>OUTPUT @200VAC</b>	12.1V/132A	12.1V/2A
	1622W	
<b>OUTPUT @100VAC</b>	12.1V/66A	12.1V/2A
	823W	
<b>Size[mm]</b>	278×73.5×40	
<b>Power Density</b>	2.1W/cc	

**Efficiency**

- 80+ Platinum compliance requirement
- Efficiency 90%@20% Load
- Efficiency 94%@50%, 91%@100% Load

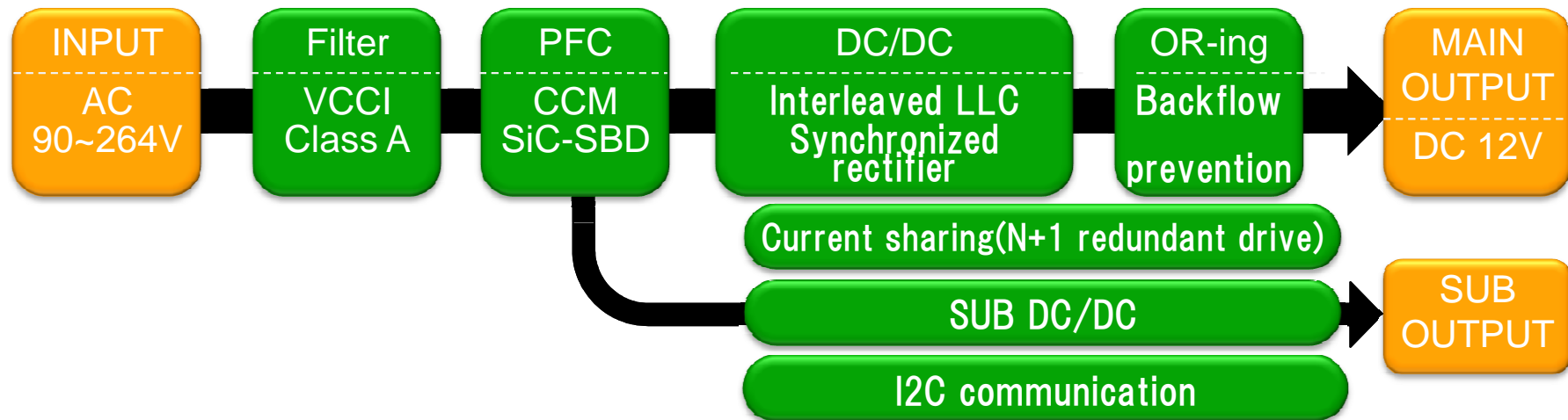


**View**





- Adopted SiC diode on PFC
- Adopted Interleaved LLC circuit
- Synchronized rectifier
- OR-ing circuit incorporated (Hot-swappable)

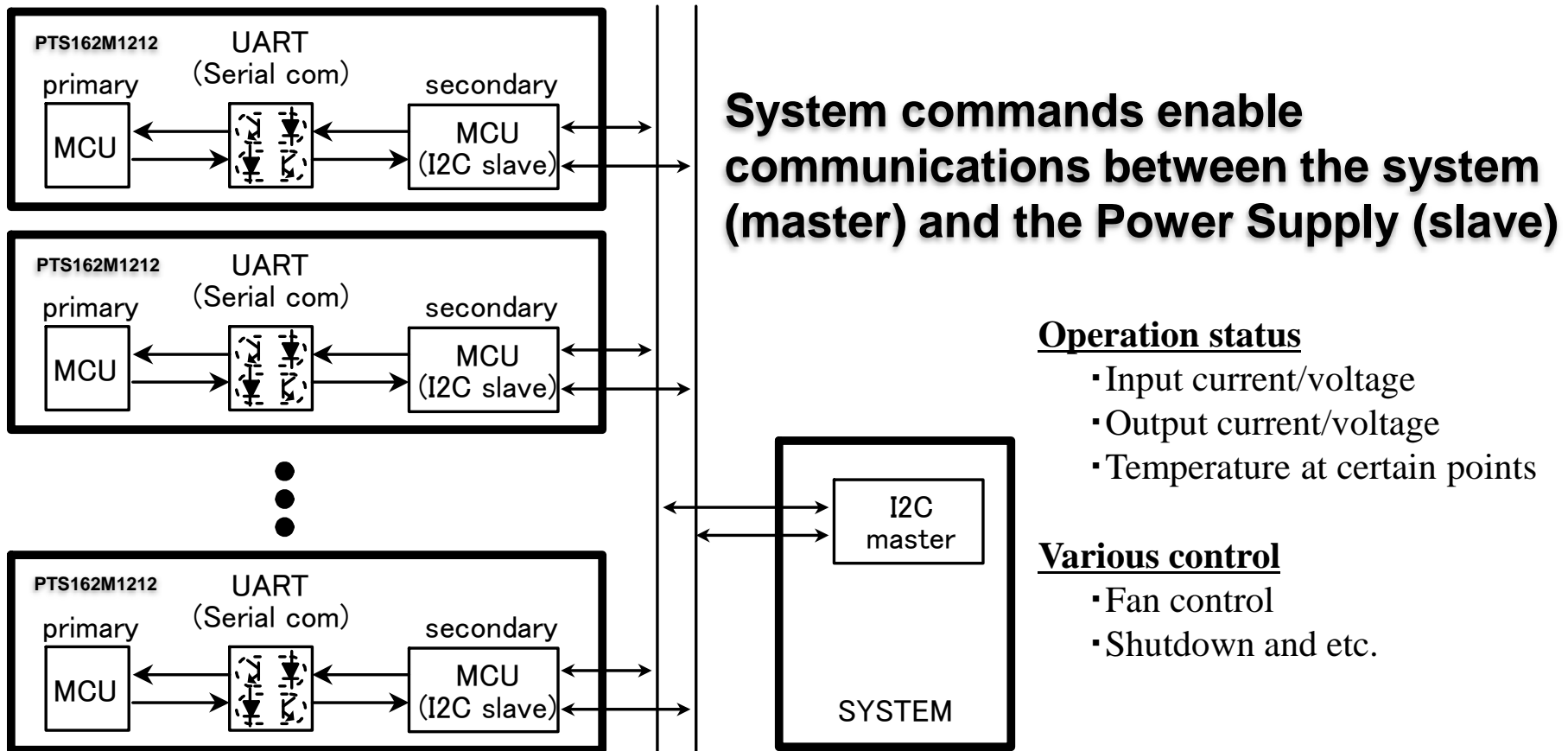


### Protection

- OVP
- OCP
- Low voltage detection
- Overheat protection(PCB/components)
- Detection fan frequency anomaly

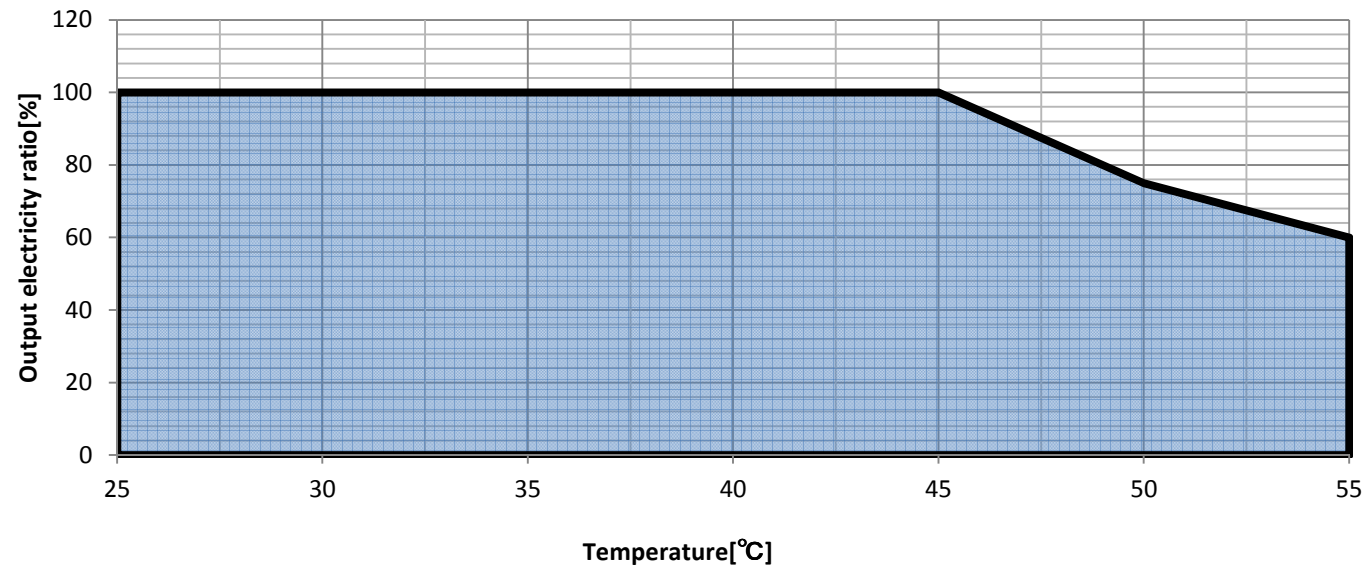


**Serial communication function (I2C) is incorporated**



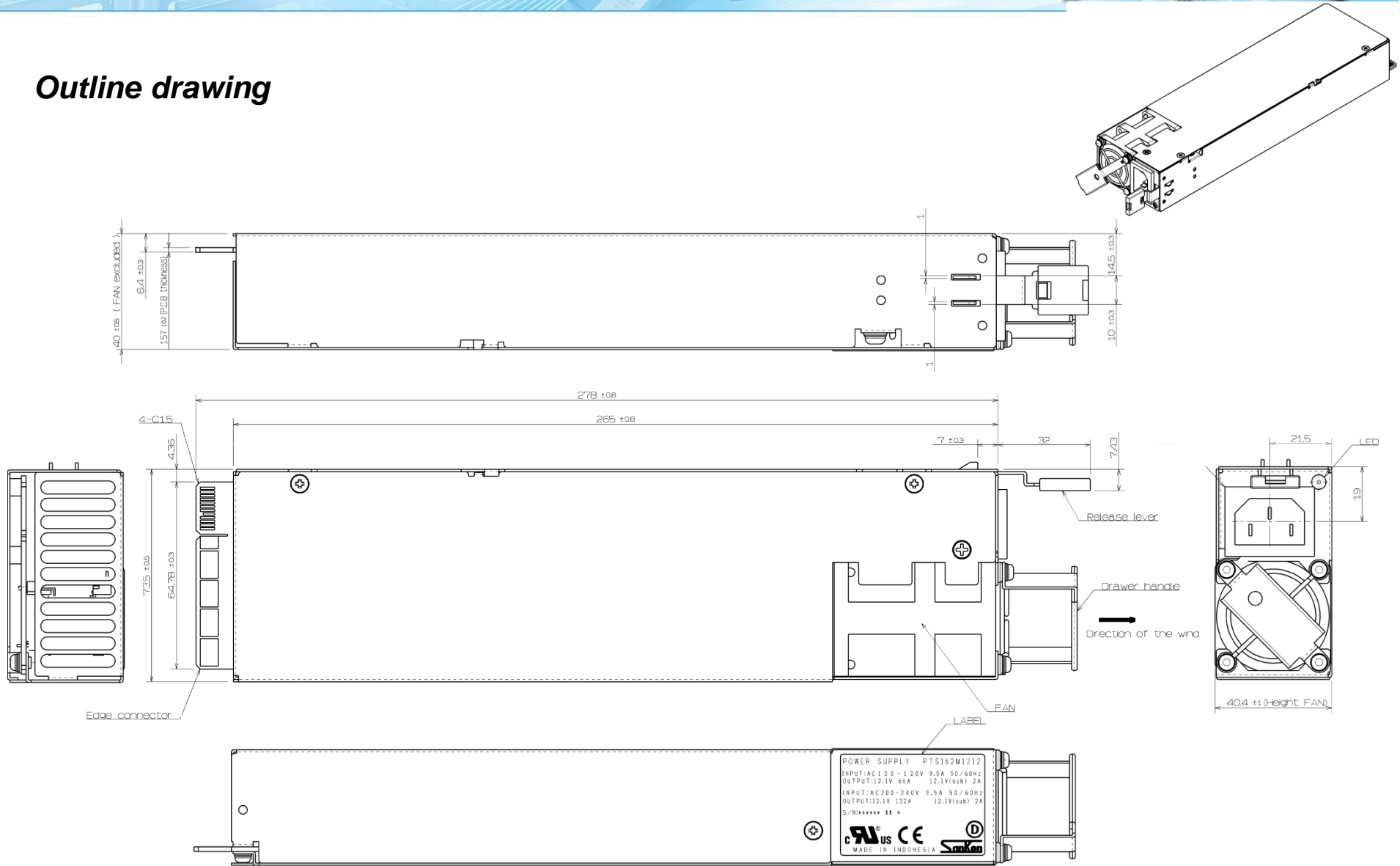
Model		PTS162M1212	
Input voltage		AC90 - 132V / AC180 - 264V	
Output voltage		12.1V(main)	12.1V(sub)
Output current	100Vsystem	66A(main)	2A(sub)
	200Vsystem	132A(main)	2A(sub)
Operating temperature		0~55°C (Operation ambient temperature 45°C at rated load)	
EMI standard		EN55022-A, VCCI-A, FCC-A, CISPR22-A	
Safety standard		UL60950-1, C-UL(CSA60950-1) IEC60950-1, DEMKO(EN60950-1) Comply with PSE	
Size		73.5(W) × 278(D) × 40(H) mm (Except prong)	

### Temperature de-rating per ambient temperature





## Outline drawing



Tolerance unless noted  $\pm 0.5$ mm.