



FEATURES

- Universal 3x320-600VAC or 450-800VDC Input voltage
- Active PFC, PF>0.95
- Operating ambient temperature range: -30°C to +70°C, 60 °C @ 100% load without derating
- Standard DIN-Rail mounting
- High efficiency, high reliability
- LED indicator for output status
- 150% peak power lasts for 5s
- Output short circuit, over-current, over-voltage, over-temperature protection
- Supporting parallel (2+1 current sharing) and series application
- Fault alarm function, DC OK, against backflow voltage
- Double-sided conformal coating, salt-spray proof
- 485 Communication, remote shutdown (PS ON)
- Operating altitude up to 5000m
- OVC III (Safety according to EN61010)
- 3 years warranty
- Safety according to ANSI/ISA 71.04-2013 G3
- Safety according to IEC/UL62368, EN61010, EN61010, UL508

LITF480-26Bxx is Mornsun AC-DC three-phase Din-Rail switching power supply. It features cost-effective, high efficiency and high reliability. With 150% power reserve, enough to support starting DC motor or capacitive load and other heavy load. These converters offer excellent EMC performance and meet IEC/UL62368, EN61010, EN61010, UL508 standards and they are widely used in areas of industrial control equipment, factory automation and mechanical and electrical equipment and other industrial control fields.

Selection Guide

Certification	Part No.	Output Power (W)	Nominal Output Voltage and Current (Vo/Io)	Output Voltage Adjustable Range (V)	Efficiency at 400VAC (%) Typ.	Max. Capacitive Load (μF)
EN/UL	LITF480-26B24	480	24V/20A	24-28	95	20000
	LITF480-26B36		36V/13.3A	36-42	95.3	13000
	LITF480-26B48		48V/10A	48-56	95.6	10000

Input Specifications

Item	Operating Conditions	Min.	Typ.	Max.	Unit
Input Voltage Range	Rated input (Certified voltage)	380	--	480	VAC
	AC input	320	--	600	
	DC input	450	--	800	VDC
Input Voltage Frequency	AC input rated frequency	50	--	60	Hz
	AC input	45	--	63	
Input Current	Input rated current	--	--	1.0	A
	400VAC	--	--	1.0	

Inrush Current	480VAC	Cold start	--	--	0.8
	400VAC		--	1.34	10
	480VAC		--	1.34	10
Power Factor	400VAC	Normal temperature, rated load	PF≥0.95		
	480VAC		PF≥0.95		
Leakage Current	480VAC	<2mA			
Hot Plug	Unavailable				

Output Specifications

Item	Operating Conditions	Min.	Typ.	Max.	Unit
Output Voltage Accuracy	Full load range	--	±1	--	%
Line Regulation	Rated load	--	±0.5	--	
Load Regulation	0% - 100% load	--	±0.5	--	
Ripple & Noise*	20MHz bandwidth (peak-to-peak value)	--	100	--	mV
Temperature Coefficient		--	±0.03	--	%/°C
Minimum Load		--	0	--	%
Dynamic minimum Load		10	--	--	%
Standby power	400VAC	--	8.2	12	W
	480VAC	--	10	15	
Hold-up Time	400VAC	18	22	--	ms
	480VAC	18	22	--	
Short Circuit Protection		Constant current mode, continuous, self-recover			
Over-current Protection		120% - 150% Io, enter constant current mode after 4.5s of normal output, automatic recover after fault condition is removed			
		≥ 150% Io, enter constant current mode, automatic recover after fault condition is removed			
Over-voltage Protection	24V	≤35VDC (Hiccup, self-recover)			
	36V	≤53VDC (Hiccup, self-recover)			
	48V	≤60VDC (Hiccup, self-recover)			
Over-temperature Protection	Over-temperature Protection start	--	--	85	°C
	Over-temperature Protection release	65	--	--	

Note: *The "Tip and barrel method" is used for ripple and noise test, output parallel 47μF electrolytic capacitor and 0.1μF ceramic capacitor, please refer to Enclosed Switching Power Supply Application Notes for specific information.

General Specifications

Item	Operating Conditions	Min.	Typ.	Max.	Unit
Isolation Test	Input - ⊕	2500	--	--	VAC
	Input - Output				
	Output - ⊕	500	--	--	
	Output - DC OK				
Insulation Resistance	Input - ⊕	50	--	--	MΩ
	Input - Output	50	--	--	
	Output - ⊕	50	--	--	
Operating Temperature		-30	--	70	°C
Storage Temperature		-40	--	85	
Storage Humidity	Non-condensing	20	--	90	%RH
Operating Humidity		10	--	95	
Switching Frequency*	PFC	40	--	300	kHz
	DC-DC	60	--	150	

Power Derating	Operating temperature derating	+60°C to +70°C	2.5	--	--	%/°C
	Input voltage derating	320VAC - 350VAC	0.667	--	--	%/VAC
Safety Standard						UL61010-1, UL61010-2-201 safety approved & EN62368-1 (Report) Design refer to IEC/UL62368-1, EN61010-1, EN61010-2-201, UL508
Safety Class						CLASS I, ANSI/ISA71.04-2013
MTBF	MIL-HDBK-217F@25°C	≥250,000 h				

Note: *The power supply has two converters with two different switching frequencies.

Environmental Characteristics

Item	Operating Conditions	Standard
Sinusoidal Vibration	10 - 200Hz, 2g, three directions of X, Y, Z axis	GB2423.10, IEC60068-2-6

Mechanical Specifications

Case Material	Metal (AL5052, SPCC)
Dimensions	80.0mm x 124.0mm x 127.0mm
Weight	1250g (Typ.)
Cooling Method	Free air convection
Vibrate	10-200Hz, 2g, x, y, z in three direction

Electromagnetic Compatibility (EMC)

Emissions	CE	CISPR32/EN55032	CLASS B	
	RE	CISPR32/EN55032	CLASS B	
	Harmonic current	IEC/EN61000-3-2	CLASS A	
	Voltage flicker	IEC/EN61000-3-3	Fulfilled	
Immunity	ESD	IEC/EN 61000-4-2	Contact ±8KV/Air ±15KV	perf. Criteria A
	RS	IEC/EN 61000-4-3	20V/m	perf. Criteria A
	EFT (input)	IEC/EN 61000-4-4	±4KV	perf. Criteria A
	EFT (output)	IEC/EN 61000-4-4	±4KV	perf. Criteria A
	EFT (DC OK)	IEC/EN 61000-4-4	±4KV	perf. Criteria A
	Surge (input)	IEC/EN 61000-4-5	line to line ±2KV/line to PE ±4KV	perf. Criteria A
	Surge (output)	IEC/EN 61000-4-5	Vo+ to Vo- ±500V; Vo+/Vo- to PE ±1KV	perf. Criteria A
	Surge (DC OK)	IEC/EN 61000-4-5	DC OK to PE ±1KV	perf. Criteria A
	CS	IEC/EN61000-4-6	20 Vr.m.s	perf. Criteria A
	Voltage dips, short interruptions and voltage variations immunity	IEC/EN61000-4-11	0% 70%	perf. Criteria A
Intercom interference test	MS-SOP-DQC-007		perf. Criteria A	

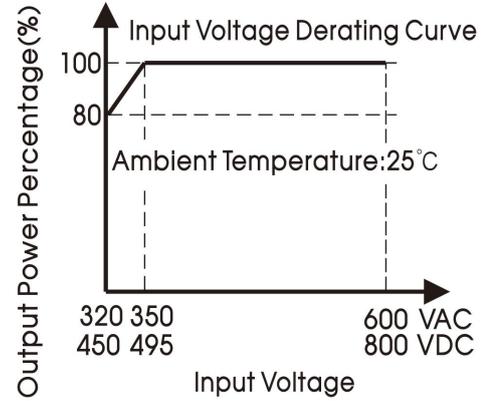
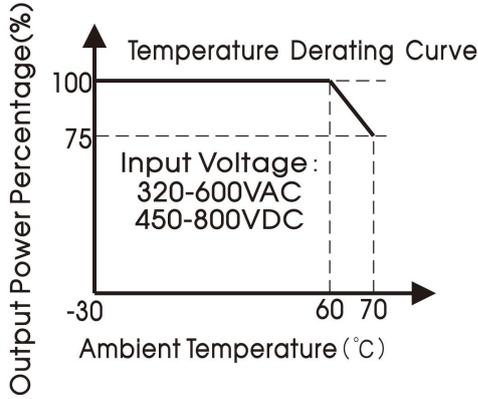
Functional Specifications

Item	Operating Conditions	Min.	Typ.	Max.	Unit
Remote Control Switch	0 - 0.8VDC power turn-on	0	--	0.8	VDC
	4 - 20VDC power turn-off	4	--	20	
DC OK Signal	Full input voltage range, full load range	DC OK power on	0.95Vo - Vo		
		DC OK power off	<0.90Vo		
Oring*	Support direct parallel use, achieve 2+1 parallel redundancy				
Current Sharing Accuracy*	When multiple units are connected in parallel, the sub-modules shunt more than 50% of the rated load	--	±5	--	%
LED Signal	Main output status indication	Normal output >95%	Green On		
		Load >110% Io or	Red On		

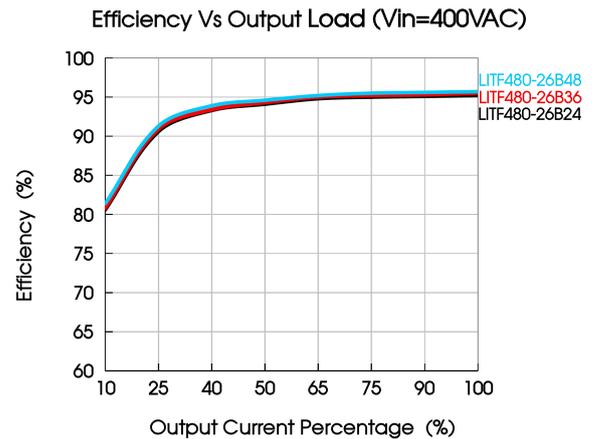
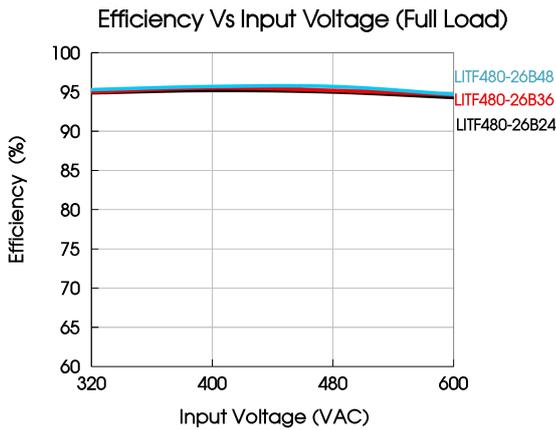
	over-temperature protection	
	Power Off (No AC input) or PS ON Off	Turn-off
RS485-B, RS485-A		RS485 communication

Note: 1*. For all applications, please refer to LITF480-26Bxx Series Power Supply Application Notes.
2*. When multiple units work with current sharing, the output voltage deviation of each power supply working alone shall not exceed 100mV.

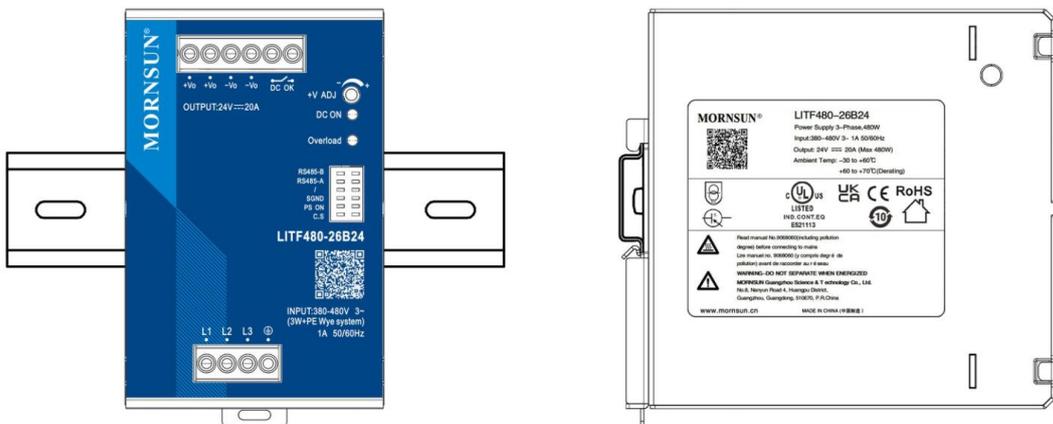
Product Characteristic Curve



- Note: 1. With an AC input voltage between 320 - 350VAC/450 - 495VDC the output power must be derated as per the temperature derating curves;
2. This product is suitable for applications using natural air cooling; for applications in closed environment please consult Mornsun's FAE.
3. The operating temperature and the ambient temperature are determined according to the air temperature at 2cm below the power supply.



Installation Diagram



Note: Keep the following installation clearances: 20mm on the top, 20mm on the bottom, 5mm on the left and right sides are recommended when the device is loaded permanently with more than 50% of the rated power. Increase this clearance to 15mm in case the adjacent device is a heat source (e.g. another power supply).

Materials required in the installation

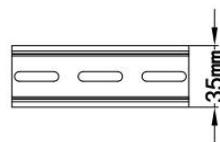
1	Product	1 PC
2	Phillips screwdriver Slotted screwdriver	1 PC
3	TS35/7.5 or TS35/15	1 PC
4	24-10AWG Wire	/ PCS
	The content is for reference only. Regarding the actual wire diameter and tightening torque, refer to the dimensional drawing.	



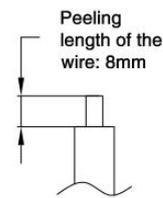
Product



Phillips screwdriver
Slotted screwdriver
Diameter of the cutting
Diameter: 3mm



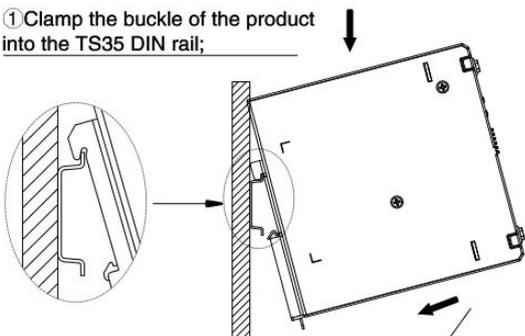
TS35/7.5 or TS35/15



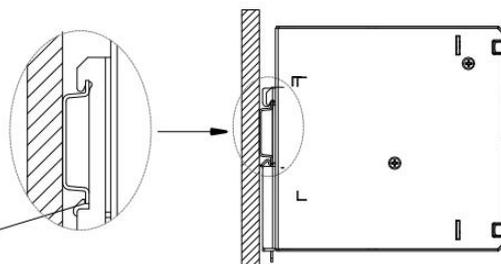
24-10AWG Wire

Installation Steps ①-②

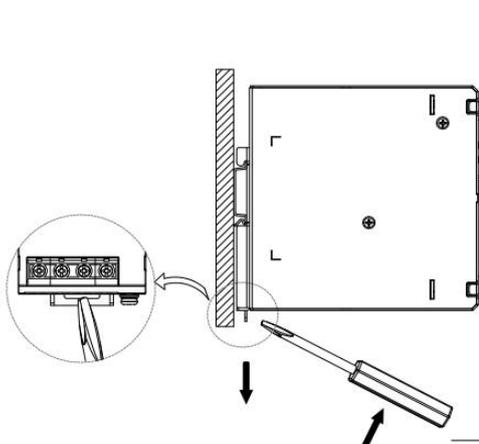
① Clamp the buckle of the product into the TS35 DIN rail;



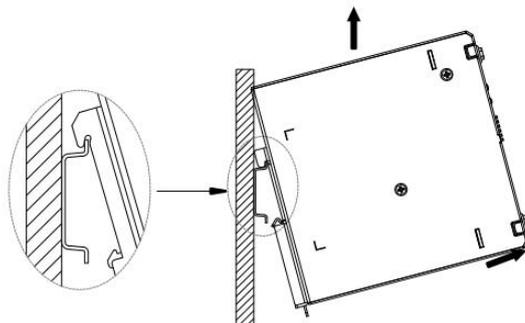
② Push the product vertically towards the TS35 DIN rail until hearing the sound of the buckle snapping into it.



Disassembly Steps ③-④

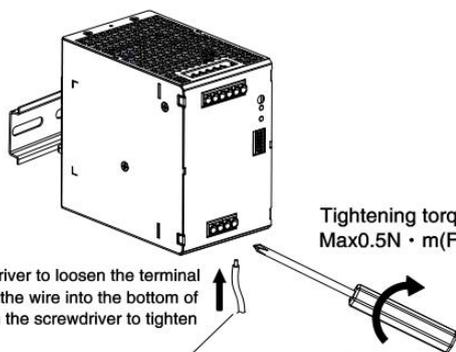


③ After inserting the Slotted screwdriver into the square groove at the bottom of the buckle, push the slider of the buckle downward in the direction shown in the figure.



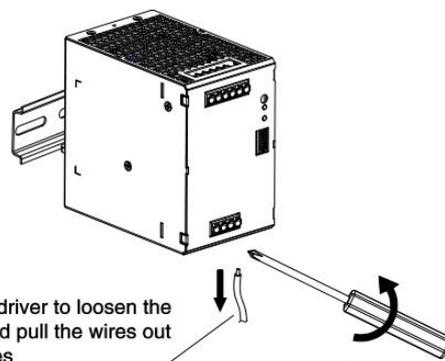
④ Hold the bottom of the product and push it outwards, then lift the product up to take the product out of the DIN rail.

Wiring / Unwiring Steps ⑤-⑥



⑤ Use the Phillips screwdriver to loosen the terminal screws, insert the head of the wire into the bottom of the terminal, and then turn the screwdriver to tighten the terminal screws.

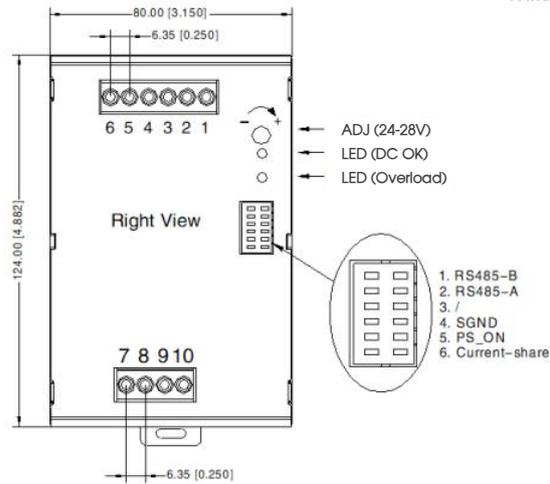
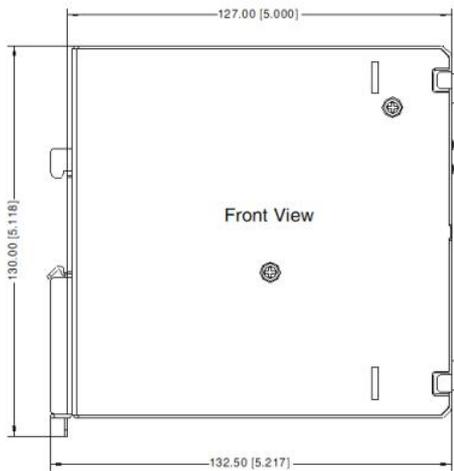
Tightening torque:
Max0.5N · m(For reference);



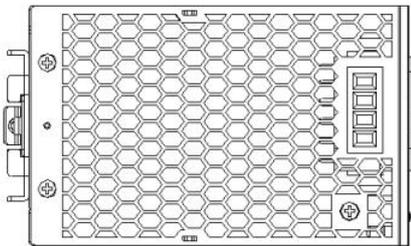
⑥ The Phillips screwdriver to loosen the terminal screws and pull the wires out of the terminal holes

Dimensions and Recommended Layout

THIRD ANGLE PROJECTION 



Pin-Out	
Pin	Mark
1	DC OK
2	
3	-Vo
4	-Vo
5	+Vo
6	+Vo
7	L1
8	L2
9	L3
10	



Bottom View 11

10、11 any position must be connected to the earth ()

Note:

Unit: mm[inch]

ADJ: Output adjustable resistor

Wire range: Input: 24-10 AWG

Output: 24-10 AWG

Input Tightening torque: Max 0.5 N·m

Output Tightening torque: Max 0.5 N·m

Mounting rail: TS35, rail needs to connect safety ground

General tolerances: $\pm 1.00[\pm 0.039]$



WARNING Risk of electrical shock, fire, personal injury or death:

AVERTISSEMENT AVERTISSEMENT Risque de choc électrique, d'incendie, de blessures corporelles ou de décès :

1. Do not use the power supply without proper grounding (Protective Earth). Use the terminal on the input block for earth connection and not one of the screws on the housing;
N'utilisez pas l'alimentation électrique sans mise à la terre appropriée (Terre protectrice). Utilisez le terminal sur le bloc d'entrée pour la connexion terrestre et non pas une des vis sur le boîtier;
2. Turn power off before working on the device, protect against inadvertent re-powering;
Éteignez l'alimentation avant de travailler sur l'appareil, protégez-vous contre la réenergisation accidentelle;
3. Make sure that the wiring is correct by following all local and national codes;
Assurez-vous que le câblage est correct en suivant tous les codes locaux et nationaux;
4. Do not modify or repair the unit;
Ne modifiez pas ou ne réparez pas l'appareil;
5. Do not open the unit as high voltages are present inside;
Ne modifiez pas ou ne réparez pas l'appareil;
6. Use caution to prevent any foreign objects from entering the housing;
Faire preuve de prudence pour empêcher les objets étrangers d'entrer dans le logement;
7. Do not use in wet locations or in areas where moisture or condensation can be expected;
Faire preuve de prudence pour empêcher les objets étrangers d'entrer dans le logement;
8. Do not touch during power-on, and immediately after power-off, hot surfaces may cause burns; 
Ne touchez pas pendant l'alimentation et, immédiatement après l'alimentation, les surfaces chaudes peuvent causer des brûlures.
9. For ambient temperature $\leq 60^{\circ}\text{C}$, use $\geq 90^{\circ}\text{C}$ - copper wire only; for ambient temperature $>60^{\circ}\text{C}$ to 85°C , use $\geq 105^{\circ}\text{C}$ - copper wire only; use only wires with a minimum dielectric strength of 300V (input) and 60V (output);
Température ambiante $\leq 60^{\circ}\text{C}$, utiliser $\geq 90^{\circ}\text{C}$ - seulement fils de cuivre; Température ambiante $>60^{\circ}\text{C}$ et 85°C , utiliser $\geq 105^{\circ}\text{C}$ - seulement fils de cuivre; Uniquement pour l'utilisation de fils de cuivre d'une résistance d'isolation minimale de 300V (d'entrée) et 60V (de sortie).

Note:

1. For additional information on Product Packaging please refer to www.mornsun-power.com, Packaging bag number: 58220306;
2. Unless otherwise specified, parameters in this datasheet were measured under the conditions of $T_a=25^{\circ}\text{C}$, humidity $<75\%RH$ with nominal input voltage and rated output load;
3. The room temperature derating of $3.5^{\circ}\text{C}/1000\text{m}$ is needed for operating altitude greater than 2000m;
4. All index testing methods in this datasheet are based on our company corporate standards;
5. In order to improve the efficiency at high input voltage, there will be audible noise generated, but it does not affect product performance and reliability;
6. We can provide product customization service, please contact our technicians directly for specific information;
7. Products are related to laws and regulations: see "Features" and "EMC";
8. The out case needs to be connected to the earth (⊕) of system when the terminal equipment in operating;
9. The output voltage can be adjusted by the ADJ, clockwise to decrease;
10. Our products shall be classified according to ISO14001 and related environmental laws and regulations, and shall be handled by qualified units;
11. The power supply is considered a component which will be installed into a terminal equipment. All EMC tests should be confirmed with the final equipment. Please consult our FAE for EMC test operation instructions.

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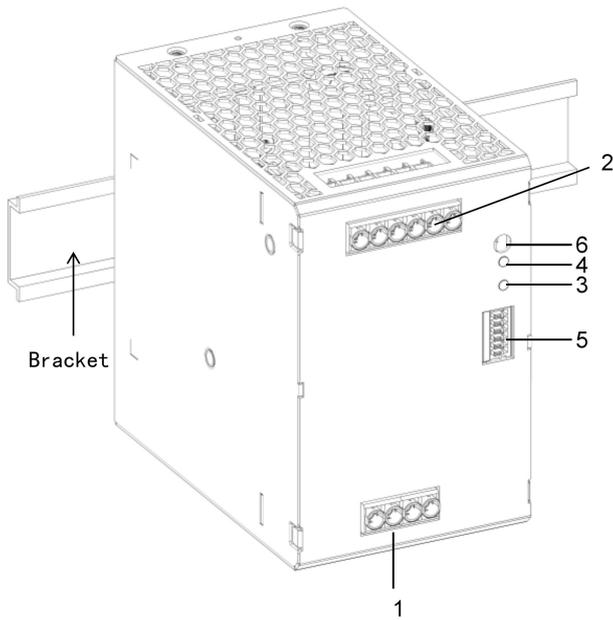
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LITF480-26Bxx Power Supply Application Notes

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1. Mechanical Specification

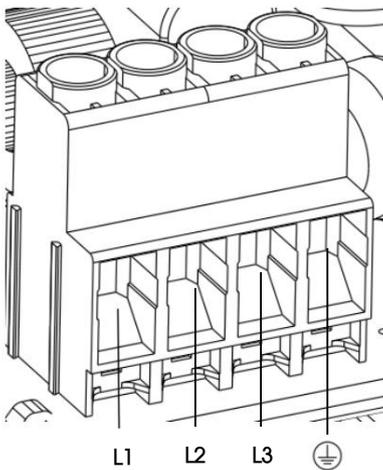


Structure Instruction	
1	Input terminal (CN1)
2	Output terminal (CN2)
3	Red status display LED lights
4	Green status display LED lights
5	Signal connection terminal (CN5)
6	Output voltage adjustment knob

Figure 1: LITF480-26Bxx Appearance Information

1.1 Input Terminal (CN1)

4 Position 6.35 mm Barrier Terminal Blocks is used as Input terminal.

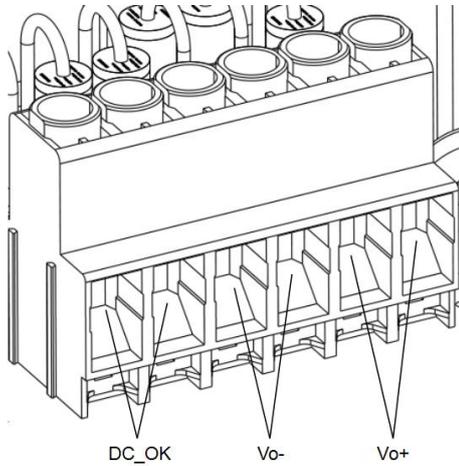


Line size: 24-10AWG
Torque: 0.5Nm

Pin	Features
L1	Live
L2	Live
L3	Live
⊥	Protective Earth

1.2 Output Terminal (CN2)

6 Position 6.35 mm Barrier Terminal Blocks is used as Output terminal.

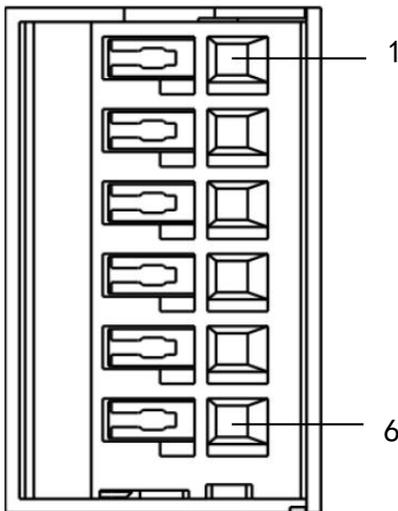


Pin	Features
Vo+	Positive output
Vo-	Negative output
DC OK	Judging output status

Line size: 24-10AWG

Torque: 0.5Nm

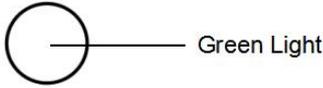
1.3 Signal Connection Terminal (CN5)



Pin	Mark	Features
1	RS485_H	Serial communication
2	RS485_L	Serial communication
3	/	/
4*	SGND	Signal terminal reference ground
5	PS_ON	Remote control signal
6	C.S	Current sharing

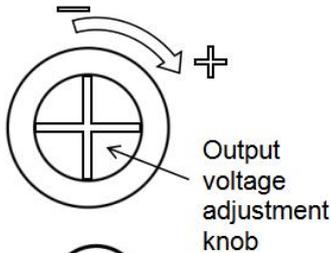
Note: *The reference ground of all pins on the signal terminal is pin 4.

1.4 Red And Green Status Display LEDs



Green Light	Red Light	State*
On	Off	Normal work
On	On	Peak power operation or about to enter over temperature protection
Off	On	Constant current mode
Off	Off	No AC input
Note: *The LED lights indicate different working states of the power supply		

1.5 Output voltage adjustment knob



Model	Rated Output Voltage	Output Voltage Adjustable Range
LITF480-26B24	24VDC	24-28VDC
LITF480-26B36	36VDC	36-42VDC
LITF480-26B48	48VDC	48-56VDC

2. Function Manual

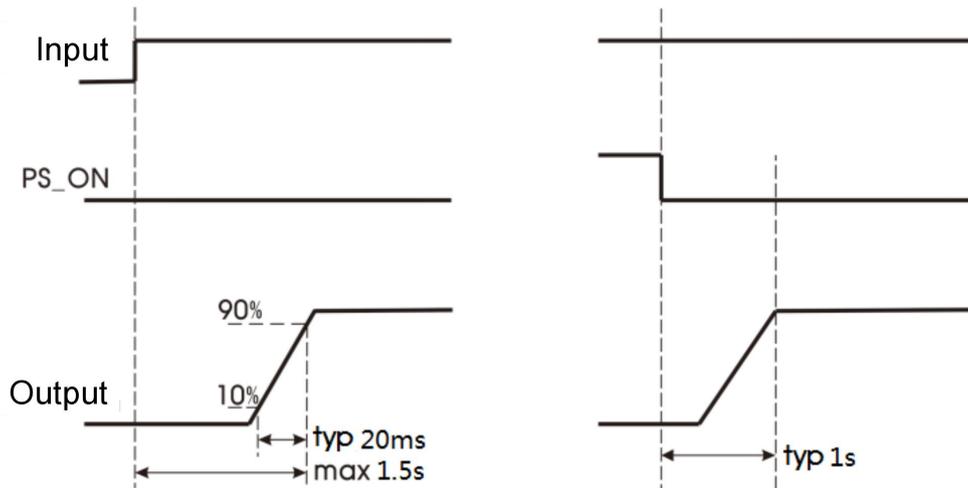
2.1 Input Requirements

The AC input voltage and DC input voltage must be within the defined amount of electricity (reference data sheet), otherwise the power supply may not work properly or even malfunction. A 500V/4A fuse has been connected in series between the L1/L2 /L3 line inside the power supply. For better protection of the module, it is recommended that customers use a circuit breaker of no more than 4A. (Just for strengthen the protective purpose, not essential requirements)

2.2 Output Requirements

At any output voltage value, if it is necessary to operate normally, the highest pull current and power must not exceed the rated specified value, and the output current must not exceed the maximum output current value.

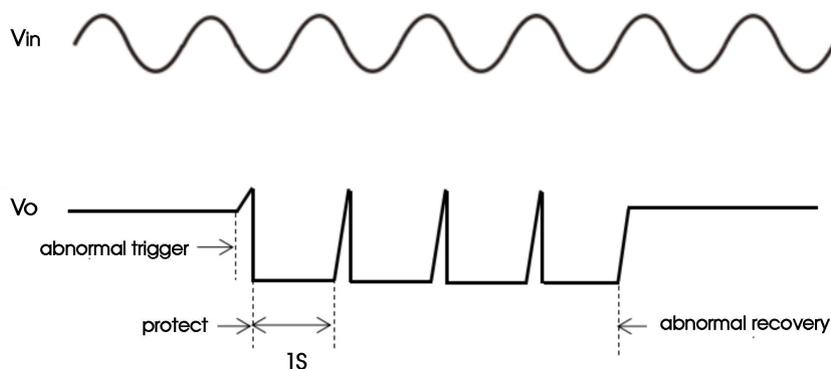
2.3 Starting Time



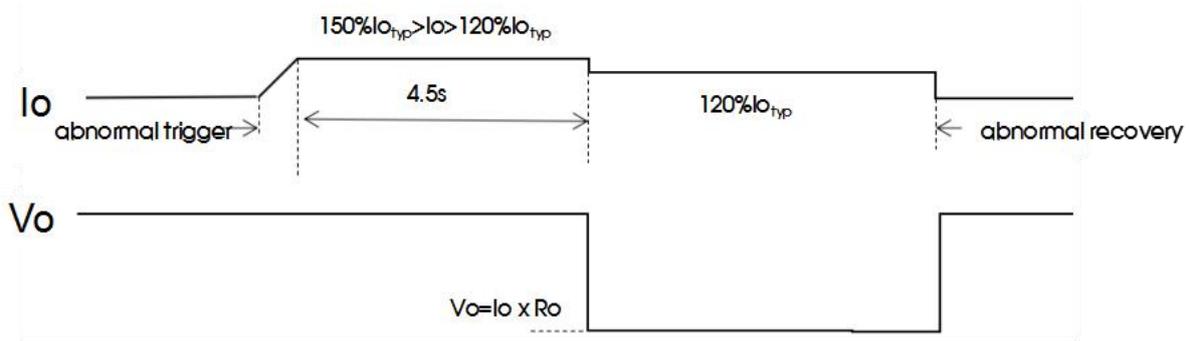
Item	Working conditions	Min.	Typ.	Max.	Unit
Start-up delay time	400VAC, full load	--	--	1.5	s

2.4 Output Over-Voltage Protection (OVP)

The main circuit output will be off when the output voltage reaches the over-voltage protection value. When it occurs, the output enters the hiccup mode with 1s. After the abnormal removed, the output returns to normal.

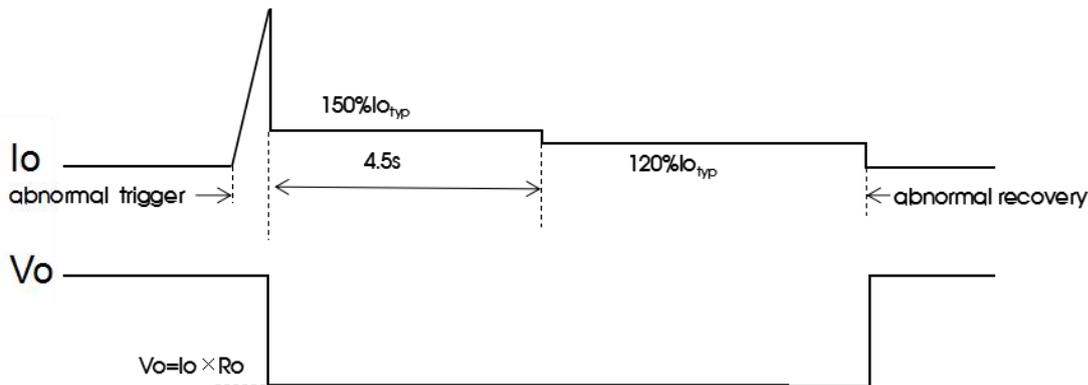


2.5 Output Over-Current and Short Circuit protection (OCP And SCP)



Constant current mode 1

Constant current mode 1: When the output current exceeds 120% of the rated output current, the output will immediately enter the constant current mode, and the current will maintain 150% of the rated output current for 4.5S, and then enter 120% of the rated output current, and the output voltage will drop at the same time, after the abnormal removed, self-recover.



Constant current mode 2

Constant current mode 2: When the output current exceeds 150% of the rated output current, the output will immediately enter the constant current mode, and the current will maintain 150% of the rated output current for 4.5S, and then enter 120% of the rated output current, and the output voltage will drop at the same time, after the abnormal removed, self-recover.

Note: The output voltage at constant current is determined by the output load, that is, $V_o = I_o \times R_o$. Where I_o represents the current value at constant current. R_o means output load value.

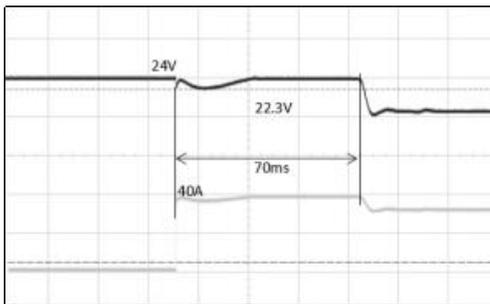
2.6 Peak Current Capabilities

The power supply is capable of outputting peak currents higher than certain short-term currents (up to several milliseconds).

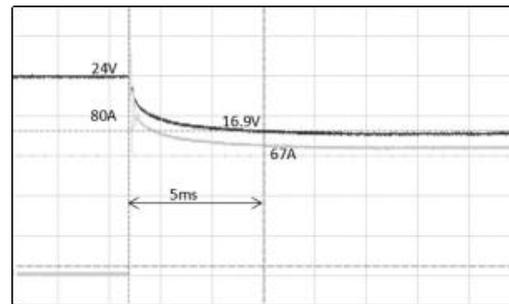
This feature is helpful for loads with high current demands. Solenoids, contactors, and pneumatic modules typically have steady-state coils and pull-in coils.

Peak current capability also ensures safe operation of the circuit breaker behind the load circuit. The load branches are usually protected separately by circuit breakers or fuses. If a branch circuit is shorted or overloaded, a fuse or circuit breaker requires a certain amount of overcurrent to open in time. This prevents voltage dips in adjacent circuits.

When the output current is large, there will be a voltage sag at the output terminal, while maintaining a large current output for a certain period of time, see the figure below for details.



40A peak load (resistive) for 70ms, the output voltage drops from 24V to 22.3V



80A peak load (resistive) for 5ms, the output voltage drops from 24V to 16.9V

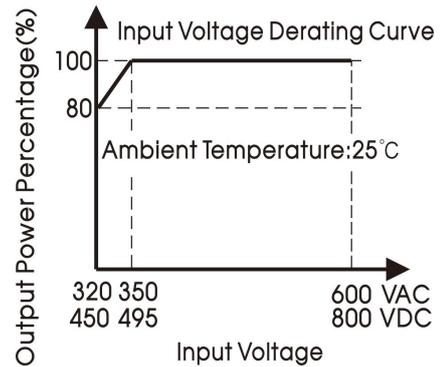
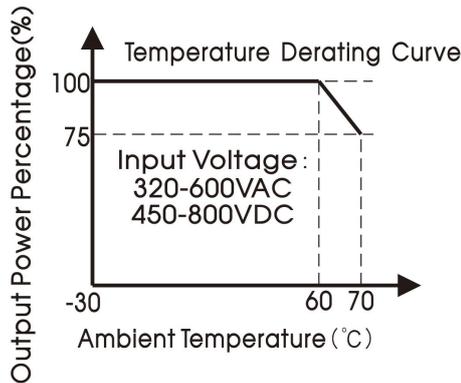
Voltage dip at peak current	Typical value	From 24V to 22.3V	40A, 70ms duration, resistive load
	Typical value	From 24V to 16.9V	80A, 5ms duration, resistive load

2.7 Over Temperature Protection (OTP)

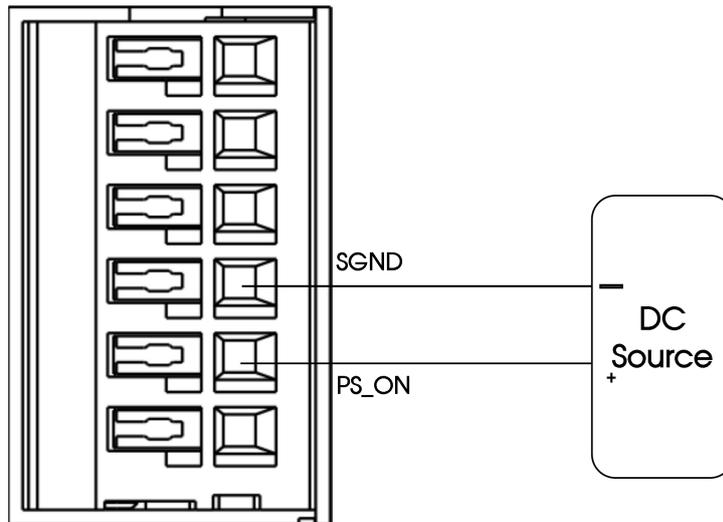
When the ambient temperature of the power supply exceeds the rated temperature for a period of time, the power supply will turn off the output and enter the hiccup state. After the ambient temperature drops to the set value, the power supply will resume normal operation.

2.8 Output Power Derating

When the input voltage is greater than 350VAC (or 495VDC), only need to derate according to the temperature derating curve; When the input voltage is lower than 350VAC (or 495VDC), the output power will be derated according to the following input voltage derating curve requirements after the temperature derating.



2.9 Remote Control Switch

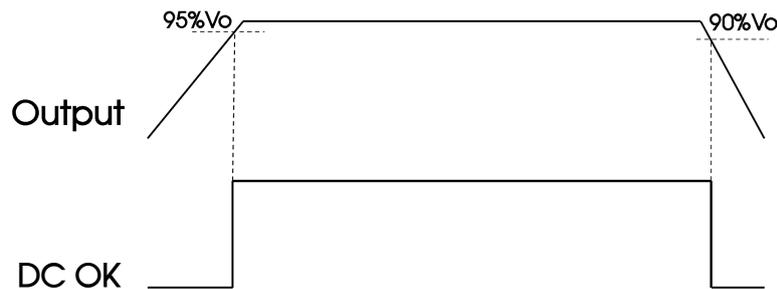


Between PS_ON (Pin5) and SGND (Pin4) Switch	Output Status
DC Source power supply voltage is less than 0.8VDC	Normal output
DC Source supply voltage is greater than 4VDC less than 20VDC	Output Off

If the power module is connected to the power supply, it can be controlled by the external voltage between the PS_ON signal pin and SGND.

2.10 DC OK Signal

The DC OK signal is used to monitor whether the power supply is working normally. This signal is on the DC OK pin of the output terminal CN2. When the output is greater than 95% of the rated voltage of the output, the DC OK signal is activated, the DC OK at the output terminal is connected, and the green light is on at the same time. When the output voltage is less than 90% of the rated voltage of the output, the DC OK of the output terminal is disconnected, and the green light is off at the same time.



2.11 Used in series

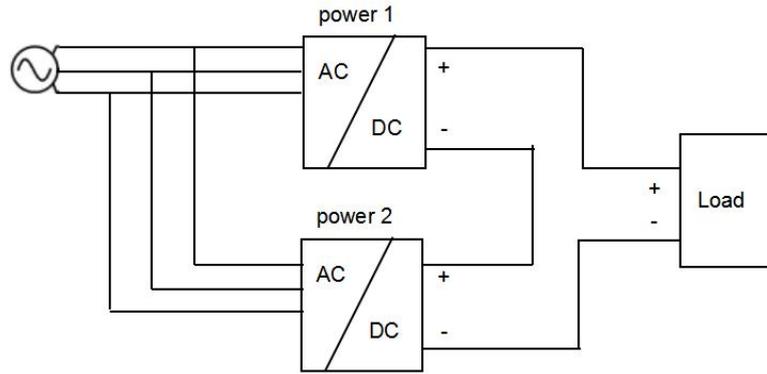
The same type of power supply can be connected in series with each other to increase the output voltage. Under the premise that the total output does not exceed 150VDC, any number of power supplies can be connected in series as needed. Voltages in excess of 60VDC are no longer considered Safety Extra Low Voltage Circuits (SELV) and can therefore be dangerous. When installing such voltages, it must be protected against touch.

Please avoid generating feedback voltage to the output terminals (eg from a decelerating motor or battery).

Keep a 15mm (left/right) installation gap between the two power supplies and avoid installing the power supplies on top of each other. Do not connect the power supplies in series in an installation orientation other than the standard installation orientation (input terminals down).

Note that leakage current, electromagnetic interference, inrush current and harmonics will increase when multiple power supplies are used.

Refer to the figure below for the wiring method:



2.12 Work in parallel

2.12.1 Redundancy

Power module outputs can be connected in parallel for redundancy, increasing system reliability. The maximum power of the redundant system needs to be de-rated to ensure that the redundant system can still meet the rated load requirements when a power supply module fails. Currently, the common practice is to build a redundant system by the N+1 method, that is, N+1 power supplies are connected in parallel. Support the maximum load current $N \cdot I_{\text{omax}}$, where I_{omax} is the rated output current of each power supply, for example, the rated output current of each power supply is 20A, and 2+1 are connected in parallel, thus constructing a $2 \cdot 20\text{A} = 40\text{A}$ redundant system.

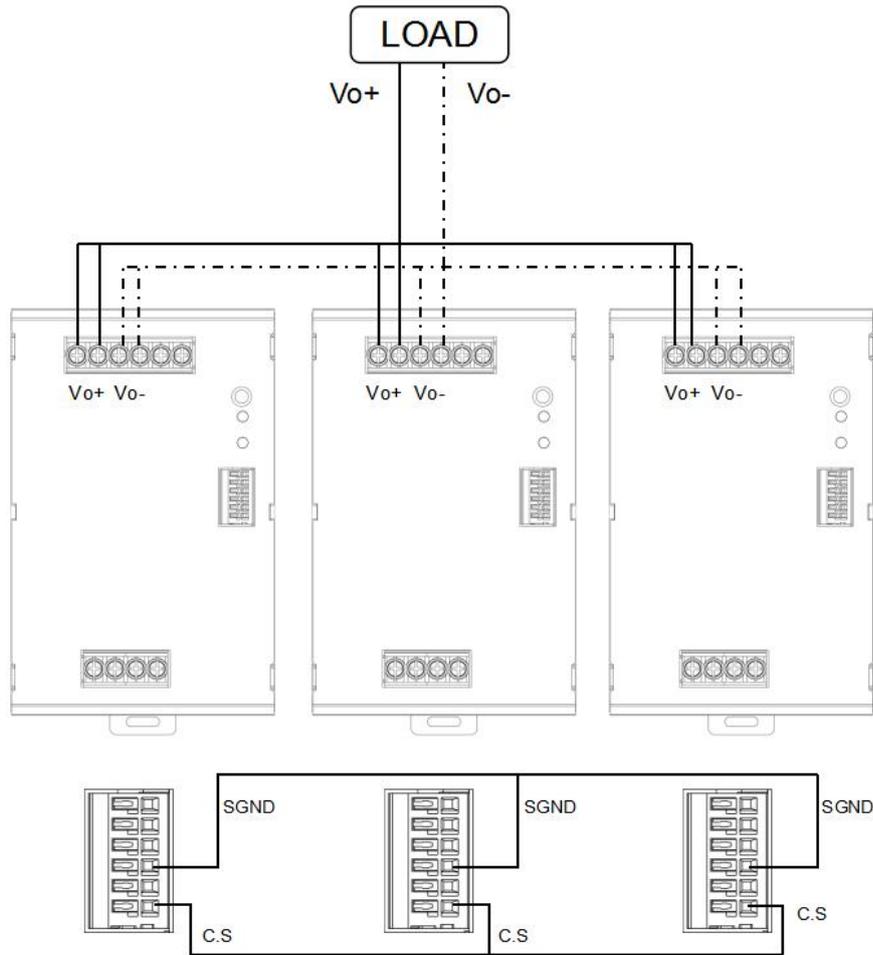
The power module supports 2+1 parallel redundant operation.

The Oring circuit is used inside the power module, and when any one of the power modules in parallel fails, it will not affect the work of other power modules.

2.12.2 Current Share

The current sharing bus (current_share) between multiple machines is short-circuited with each other, and SGND is short-circuited with each other at the same time.

The output voltage difference of each single module is less than or equal to 100mV, and a better comprehensive effect of line terminal output voltage and current sharing can be obtained. The wiring method of the current sharing function is shown in the following figure:



Note: 1. When used in parallel, the number of parallel modules cannot exceed 3.

2. When the power modules work in parallel, there is an active current sharing circuit inside to ensure that the current between each module remains balanced.

The active current sharing circuit adopts the automatic master-slave current sharing method. Each power supply module has a current sharing bus signal (C.S). When working in parallel, the current sharing buses of all power modules must be connected together. The current sharing bus signal is located at pin 5 of CN5. At the same time, it is necessary to connect the signal terminals SGND of the power module together, and the SGND of the signal terminal is located at pin 4 of CN5.

The output voltage of each power module will affect the current sharing accuracy. The output voltage of the power module is rated voltage $\pm 100\text{mV}$. In practical applications, if the output voltage value needs to be adjusted, the output voltages of all parallel power modules need to be adjusted to the same voltage. The recommended voltage range is: target voltage value $\pm 100\text{mV}$.

After the output load of each power module is greater than 50% of the rated load, the current sharing

accuracy is required to be $\pm 5\%$. The calculation formula of current sharing is:

$$\text{Power supply 1's average accuracy} = \frac{I_{o1} - (I_{o1} + I_{o2}) / 2}{(I_{o1} + I_{o2}) / 2} * 100\%$$

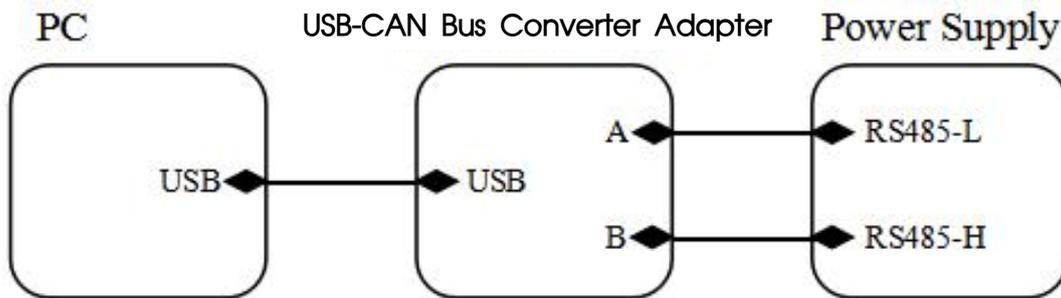
$$\text{Power supply 2's average accuracy} = \frac{I_{o2} - (I_{o1} + I_{o2}) / 2}{(I_{o1} + I_{o2}) / 2} * 100\%$$

I_{o1} : The output current value of the power supply 1 in the parallel power module.

I_{o2} : The output current value of the power supply 2 in the parallel power module.

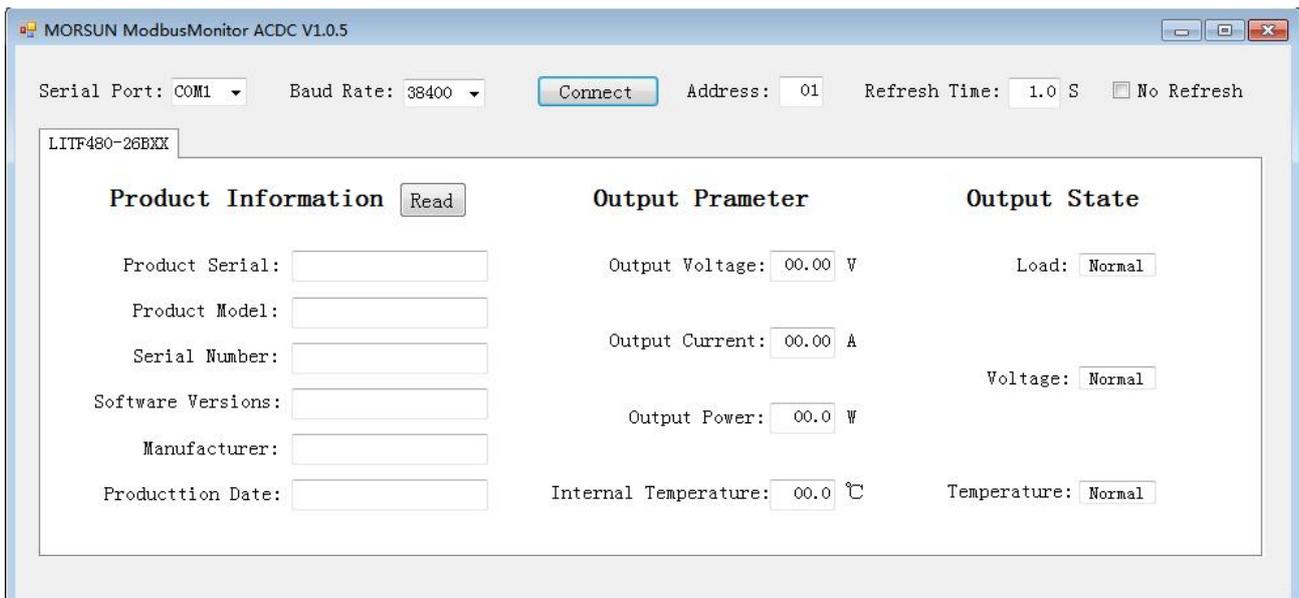
2.13 PC Monitoring

In a parallel system, if you need to identify the information of the power modules, you need to monitor each parallel power module by the host computer. The connection diagram is as follows:



That is: Connect the RS485-L and RS485-H of the signal terminal to the USB interface module

When the host computer communication is turned on, you can see the following monitoring screen

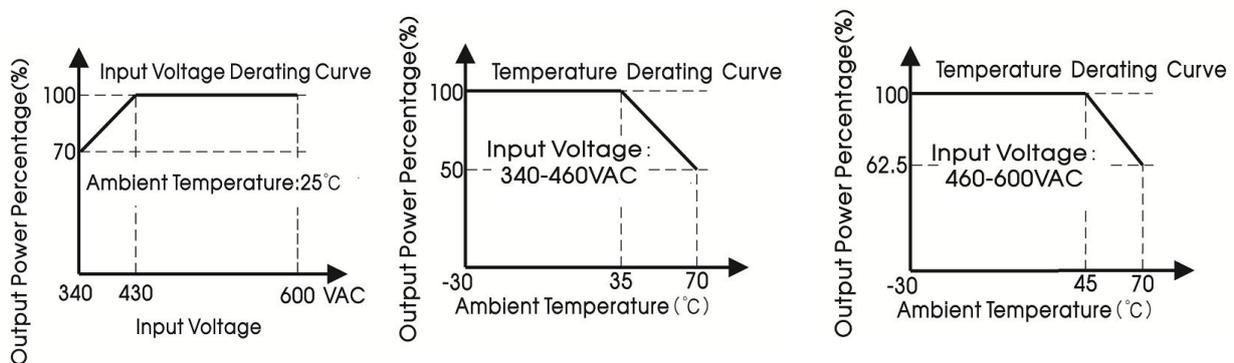


Note: After the serial port is successfully opened, the information of "output parameter" and "output state" will be automatically obtained, and the "product information" needs to be manually clicked on the read case after the "product information".

2.14 Available in 3-phase 2-wire systems

This power supply can also be used for permanent operation of two-wire in a three-phase system.

When operating the two-wire in a three-phase system, the output power must be derated according to the following curve, and the input operating voltage can only operate at 340VAC-600VAC. Exceeding this derating limit for a long time will cause the power supply to overheat and shut down.

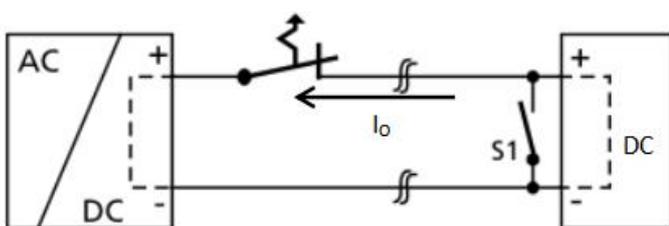


Note: Basic performance such as electromagnetic compatibility performance, hold-up time, loss and output ripple are different from three-phase operation. This working method is not covered in the certification, and operation two wires in a three-phase system does not meet the safety certification.

2.15 Back Voltage Load

Loads such as decelerating motors, inductors can feed voltage back into the power supply. This property is also known as feedback voltage resistance or resistance to opposing electromagnetic forces.

The power supply is resistant to voltage back into the supply by the load and will not fail regardless of whether the power supply is on or off. The function diagram as below:



Maximum allowable feedback voltage	
Model	Maximum feedback
LITF480-26B24	35VDC
LITF480-26B36	63VDC
LITF480-26B48	63VDC

3. Installation Requirements

3.1 Safety Introduction

WARNING: RISK OF ELECTRIC SHOCK DURING HIGH VOLTAGE WORKING WITH THIS EQUIPMENT

- After the power module is disconnected from the input AC or DC power, leave it for at least one minute before starting to operate it.
- When installing the input cable to the power module, first connect the ground terminal, and then connect the L1, L2 and L3 cables.
- When removing the input wire, first remove the L1 wire, L2 wire and L3 wire, and then remove the ground wire.
- When disassembling and assembling, make sure that no objects fall into the inside of the power module.
- Be careful of high temperature burns
- After the power module works in a high temperature environment, wait for its shell to cool before operating it.
- This product needs to be installed by professionals and needs to be used with other equipment.

3.2 Safety Requirements

When installing, pay attention to the primary side and the protective ground. The creepage distance and electrical clearance of the primary side and the secondary side meet the safety requirements, refer to EN/UL61010.

3.3 Installation method

Installation direction: When installing, the port of the output end should be upward, and the port of the input end should be downward. (See below)

