



Dimension			
L	W	H	
325.8	107	41 (1U)	mm
12.8	4.21	1.61(1U)	inch



## ■ Features

- Universal AC input / Full range
- Built-in active PFC function
- High efficiency up to 94.5%
- Forced air cooling by built-in DC fan
- Output voltage and constant current level programmable
- Active current sharing up to 16000W (4+1)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Optional conformal coating
- Optional PMBus or CANBus protocol
- 5 years warranty

## ■ Certificates

- Safety: UL/EN/IEC 62368-1
- EMC: EN 55032 / 55024

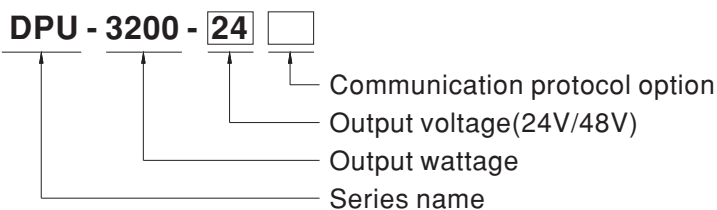
## ■ Applications

- Factory control or automation apparatus
- Test and measurement instrument
- Laser related machine
- Aging facility
- Digital broadcasting
- Constant current source
- Redundant system

## ■ Description

DPU-3200 is a 3.2KW single output enclosed type AC/DC power supply with 1U low profile and a high power density up to 37W/inch<sup>3</sup>. This series operates for 90~264VAC input voltage and offers the models with the DC output mostly demanded by the industry. Each model is cooled by the thermostatically controlled fan. Moreover, DPU-3200 provides vast design flexibility by equipping various built-in functions such as output programming, active current sharing, remote ON-OFF control, auxiliary power, and etc.

## ■ Model Encoding / Order Information



Type	Communication Protocol	Note
Blank	None	In Stock
PM	PMBus protocol	By request
CAN	CANBus protocol	By request

**SPECIFICATION**

MODEL	DPU-3200-24	DPU-3200-48		
OUTPUT	DC VOLTAGE	24V	48V	
	RATED CURRENT	133A	67A	
	CURRENT RANGE	0 ~ 133A	0 ~ 67A	
	RATED POWER	3192W	3216W	
	RIPPLE & NOISE (max.) Note.2	300mVp-p	480mVp-p	
	VOLTAGE ADJ. RANGE	23.5 ~ 30V	47.5 ~ 58.8V	
	VOLTAGE TOLERANCE Note.4	±1.0%	±1.0%	
	LINE REGULATION	±0.5%	±0.5%	
	LOAD REGULATION	±0.5%	±0.5%	
	SETUP, RISE TIME	1500ms, 60ms/230VAC at full load		
HOLD UP TIME (Typ.)	16ms / 230VAC at 75% load    9ms / 230VAC at full load			
INPUT	VOLTAGE RANGE Note.5	90 ~ 264VAC    127 ~ 370VDC		
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR (Typ.)	0.97/230VAC at full load		
	EFFICIENCY (Typ.) Note.6	93.5%	94.5%	
	AC CURRENT (Typ.) Note.5	17A/230VAC		
	INRUSH CURRENT (Typ.)	COLD START 55A/230VAC		
	LEAKAGE CURRENT	<2mA / 230VAC		
PROTECTION	OVERLOAD	105 ~ 115% rated output power Protection type : Constant current limiting, shut down O/P voltage 5 sec. after O/P voltage is down low, re-power on to recover		
	OVER VOLTAGE	31.5 ~ 37.5V	63 ~ 75V	
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down		
FUNCTION	OUTPUT VOLTAGE PROGRAMMABLE(PV)	Adjustment of output voltage is allowable to 50 ~ 125% of nominal output voltage Please refer to the Function Manual in following pages		
	CONSTANT CURRENT LEVEL PROGRAMMABLE(PC)	Adjustment of constant current level is allowable to 20 ~ 100% of rated current. Please refer to the Function Manual in following pages		
	REMOTE ON-OFF CONTROL	By electrical signal or dry contact    Power ON:short    Power OFF:open. Please refer to the Function Manual in following pages		
	REMOTE SENSE	Compensate voltage drop on the load wiring up to 0.5V. Please refer to the Function Manual in following pages		
	AUXILIARY POWER	5V @ 0.3A, tolerance ±10%, ripple 150mVp-p, 12V @ 0.8A, tolerance ±10%, ripple 450mVp-p		
	ALARM SIGNAL	Isolated TTL signal output for T-Alarm and DC-OK. Please refer to the Function Manual in following pages		
ENVIRONMENT	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")		
	WORKING HUMIDITY	20 ~ 90% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing		
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)		
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes		
SAFETY & EMC (Note 9)	SAFETY STANDARDS	UL62368-1, TUV EN62368-1, EAC TP TC 004 approved		
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC    I/P-FG:2KVAC    O/P-FG:1.5KVAC		
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH		
	EMC EMISSION	Parameter	Standard	Test Level / Note
		Conducted	EN55032 (CISPR32) / EN55011 (CISPR11)	Class B
		Radiated	EN55032 (CISPR32) / EN55011 (CISPR11)	Class A
		Harmonic Current	EN61000-3-2	-----
	Voltage Flicker	EN61000-3-3	-----	
	EMC IMMUNITY	EN55024, EN61204-3, EN61000-6-2		
		Parameter	Standard	Test Level / Note
ESD		EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact	
Radiated		EN61000-4-3	Level 3	
EFT / Burst		EN61000-4-4	Level 3	
Surge		EN61000-6-2	2KV/Line-Line 4KV/Line-Earth	
Conducted		EN61000-4-6	Level 3	
Magnetic Field		EN61000-4-8	Level 4	
Voltage Dips and Interruptions	EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
OTHERS	MTBF	168K hrs min.    Telcordia SR-332 (Bellcore) ; 44.9K hrs min.    MIL-HDBK-217F (25°C)		
	DIMENSION	325.8*107*41mm (L*W*H)		
	PACKING	2.76Kg;4pcs/12Kg/0.81CUFT		
NOTE	<ol style="list-style-type: none"> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF &amp; 47uF parallel capacitor.</li> <li>Under parallel operation ripple of the output voltage may be higher than the SPEC at light load condition. It will go back to normal ripple level once the output load is more than 5%.</li> <li>Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>Derating may be needed under low input voltages. Please check the derating curve for more details.</li> <li>The efficiency is measured at 75% load.</li> <li>If use PV signal to adjust Vo, under certain operating conditions, ripple noise of Vo might slightly go over rating defined in this specification.</li> <li>When 2 or more PSUs are in parallel connection, long cable(s) used for parallel connection might generate higher noise to communication signal. Thus, we suggest using proper filtering part(s) to avoid interference on communication .</li> <li>The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 600mm*900mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on <a href="http://www.meanwell.com">http://www.meanwell.com</a>)</li> <li>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 2000m(6500ft).</li> </ol>			