

# PRODUCT DATA SHEET

## BRIEF INFORMATION

**100W**

POWER SUPPLY HIGH END SERIES

MODE : GDS-PS100W

SIZE : 144X47X29MM

INPUT : AC200-240V~50/60Hz

OUTPUT : 12V= 8.3A



CE FC CQC SAA RoHS

GDS-PS10012-20(BLACK)

DC  
12V

IP  
20

2  
YEARS  
WARRANTY



PRODUCT FEATURES

- BUILT-IN EMI FLITER
- 100% LOAD BURN-IN TEST
- LOW OUTPUT RIPPLE AND NOISE
- ULTRA SLIM DESIGN, SUITABLE NARROW INSTALL
- AVERAGE NO TROUBLE WORKING >20,000 HOURS
- OUTPUT OVER- VOLTAGE, OVER-CURRENT AND SHORT- CIRCUIT PROTECTION
- TWO YEARS WARRANTY



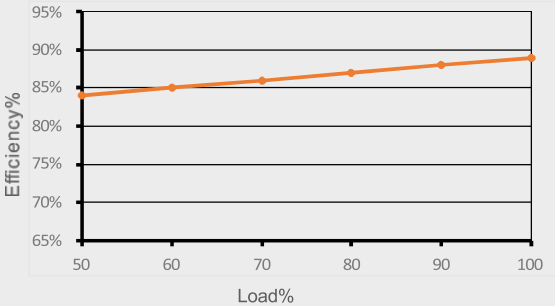
TECHNICAL PARAMETERS

|        |                                        |                |                |
|--------|----------------------------------------|----------------|----------------|
| OUTPUT | MODEL                                  | GDS-PS10012-20 | GDS-PS10024-20 |
|        | DC VOLTAGE                             | 12V            | 24V            |
|        | RATED CURRENT                          | 8.3A           | 4.16A          |
|        | CURRENT RANGE                          | 0-8.3A         | 0-4.16A        |
|        | RATED OUTPUT POWER                     | 100W           | 100W           |
|        | RIPPLES AND NOISE                      | ≤200MVP-P      | ≤300MVP-P      |
|        | OUTPUT CURRENT RANGE                   | 11.5-12.5V     | 23-25V         |
|        | PRECISION OF OUTPUT VOLTAGE REGULATION | ±0.5%          | ±0.5%          |
|        | RATE OF LINEAR ADJUSTMENT              | ±0.5%          | ±0.5%          |
|        | LOAD ADJUSTMENT RATE                   | ±0.5%          | ±0.5%          |
|        | THE STARTUP TIME                       | ≤2S/230VAC     |                |
|        | KEEP TIME                              | 10MS/230VAC    |                |
|        | VOLTAGE RANGE                          | 176-264VAC     |                |
|        | FREQUENCY RANGE                        | 50HZ           |                |
|        | POWER FACTOR                           | PF≥ 0.6/230VAC |                |

|            |                     |                                                                                                                         |       |
|------------|---------------------|-------------------------------------------------------------------------------------------------------------------------|-------|
| INPUT      | EFFICIENCY          | ≥ 89%                                                                                                                   | ≥ 91% |
|            | ALTERNATING CURRENT | 3.4A/230VAC                                                                                                             |       |
|            | SURGE CURRENT       | 50A/230VAC                                                                                                              |       |
|            | LEAKAGE CURRENT     | <5mA/230VAC                                                                                                             |       |
|            |                     | 110%-140%:RATED 110%-140%<br>OF THE TOTAL POWER INPUT                                                                   |       |
|            | OVERLOAD            | PROTECTION MODE:AUTO RECOVERY MODE.<br>THE SYSTEM AUTOMATICALLY RECOVERS WHEN<br>ABNORMAL LOAD CONDITIONS ARE REMOVED.  |       |
| PROTECTION | SHORT CIRCUIT       | PROTECTION MODE: AUTO RECOVERY MODE.<br>THE SYSTEM AUTOMATICALLY RECOVERS WHEN<br>ABNORMAL LOAD CONDITIONS ARE REMOVED. |       |
|            | OVER VOLTAGE        | PROTECTION MODE: SELF-RECOVERY<br>MODE,AUTOMATIC RECOVERY WHEN THE<br>OVERVOLTAGE IS REMOVED.                           |       |
|            | OVER TEMPERATURE    | PROTECTION MODE:SELF-RECOVERY<br>MODE,AUTOMATICALLY RECOVER WHEN THE<br>TEMPERATURE DROPS.                              |       |
|            | ENVIRONMENT         | WORKING TEMPERATURE: -35~+50°C                                                                                          |       |
|            |                     | WORKING HUMIDITY: 20-90% RH                                                                                             |       |
|            |                     | STORAGE TEMPERATURE;HUMIDITY:-<br>30~+85°C; 10~95% RH                                                                   |       |
|            |                     | TEMPERATURE COEFFICIENT: ±0.1%/°C(0-35°C)                                                                               |       |
|            |                     | RESISTANCE TO VIBRATION: 10-500HZ, 3G<br>10MIN. / 1 CYCLE, 60 MIN. EACH AXES                                            |       |
|            |                     | SAFETY NORMS: EN60950 , GB4943.1 -2011                                                                                  |       |
|            |                     | WITHSTAND VOLTAGE: L/P-O/P:1.5KVAC L/P-<br>FG:1.5KVAC O/P-FG:0.5KVAC                                                    |       |
|            | SAFETY & EMC        | INSULATION IMPEDANCE : L/P-O/P, L/P-FG, O/P-<br>FG:100M OHMS / 500VDC / 25° C/ 70% RH                                   |       |
|            |                     | EMC : —                                                                                                                 |       |
|            |                     | PROTECTION GRADE : IP20                                                                                                 |       |

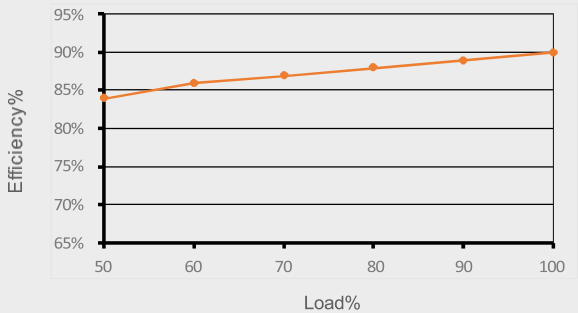
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                    |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| PROTECTION | OTHER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MTBF : ≥30KHOUR 25°C               |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | POWER SUPPLY SIZE : L144*W47*H29MM |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | POWER SUPPLY WEIGHT : 225G         |
|            | NOTE :<br><br>1. UNLESS OTHERWISE SPECIFIED , ALL SPECIFICATION ARE MEASURED AT AN INPUT OF 230VAC,RARTED NEGATIVE CUT,AND AMBIENT TEMPERATURE OF 25°C.<br><br>2.RIPPLE AND NOISE MEASUREMENT METHOD:THE MEASURED END IS CONNECTED IN PARALLEL WITH A 0.1UF+10UF CAPACITOR,THE OSCILLOSCOPE IS SET TO 20MHZ BANDWIDTH,AND THE PROBE IS TESTED WITH CAP OFF AND FULL LOAD AT 25°C.<br><br>3.ACCURACY :INCLUDES SETTING ERROR , LINEAR ADJUSTMENT RATE AND LOAD ADJUSTMENT RATE .<br><br>4.THE OUTPUT POWER IS REDUCED WHEN THE INPUT VOLTAGE IS LESS THAN 200VAC. |                                    |

EFFICIENCY VS LOAD



GDS-PS-12V

EFFICIENCY VS LOAD



GDS-PS-24V

TEMPERATURE LOAD CURVE

