



**PATON GROUP**  
**INTERNATIONL**



# Planar Transformers

## PAYTON 6000 W SMPS TRANSFORMER FOR INDUSTRIAL APPLICATION

### Functional specs

1. Generic Type : T1000AC-20-3.
2. Total output power : 6000 W ( 57Vdc/105Adc).
3. Transformer operating frequency : 40 kHz.
4. Transformer input voltage range : 450 ÷ 735V peak.
5. Topology : **Full Bridge, Matrix 3 phase.**
6. Operating Volt-second product, **max.** : 9576 ( 2\*4788 ) V-μsec.
7. Pri. to Sec. ratio : 20 : 3  
(Sec. current, **max.** – 97 Arms)
8. Primary current, **max** : 16 Arms. ( 17.4 A peak ).
9. Dielectric strength:  
( Pri. to Sec. +Core ) : 3000Vrms.  
( Sec. to Core ) : 500Vdc.
10. Ambient temperature range : -40°C , +65°C.
11. Estimated power losses : 40 W.  
( **with 60°C external heat sink** )

- |  |                               |                                   |
|--|-------------------------------|-----------------------------------|
|  | <b>With thermal<br/>Clasp</b> | <b>With out<br/>Thermal clasp</b> |
| 12. Mechanical dimensions<br>( <u>for reference only</u> ) | : Length - 125 mm.            | 125 mm.                           |
|  | : Width - 90 mm.              | 64 mm                             |
|  | : Height - 46 mm.             | 38 mm                             |

