PHQ
INTEGRATED HIGH VOLTAGE POWER SUPPLIES FOR PHOTOMULTIPLIER TUBES

- DC/DC HV supply compactly integrated in PMT socket
- low ripple and noise, low EMI
- low power consumption
- high linearity even at high pulse load and rates by stabilized dynode voltages
- control- and monitor capabilities
- safe anode current limitation for PMT protection
- custom design for all kinds of PMTs
- multichannel capable in MMP system

iseg PHQ modules are developed as direct HV supply of modern photo multiplier tubes (PMT) with the high voltage power supply integrated in the PMT socket. Advantages of PMT-integrated power supplies are:
- no HV cabling or connectors necessary
- no separate HV supply needed
- small form factor
- increase of reliability
- power dissipation reduced by factor 10 and more
- high temperature stability and thermal balance
INTEGRATED HIGH VOLTAGE POWER SUPPLIES FOR PHOTOMULTIPLIER TUBES

FILTER  
Stabilizer I  
Stabilizer II  
Sine-way Inverter  
Control Components

SPECIFICATIONS / SPEZIFIKATION

- Ripple and noise \( |f > 10 \text{Hz}| \)  
  \(< 10 \text{mV}\)
- Stability \( |\Delta V| \)  
  \(< 1 \times 10^{-4} \cdot V_{\text{nom}}\)
- Temperature coefficient  
  \(< 5 \times 10^{-5} / K\)

TYPES / TYPEN

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PMT-TYPE</th>
<th>( V_{\text{nom}} )</th>
<th>POWER DISSIPATION</th>
<th>DYNODES</th>
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<tr>
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<td>9352</td>
<td>2.5 kV</td>
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<td>XP2960</td>
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<td>XP2020</td>
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</tbody>
</table>

DEVELOPMENT AND PRODUCTION FOR ANY OTHER PMT TYPE IN SHORT ORDER POSSIBLE. PLEASE CONTACT US!

(*) the voltage divider and terminal meet the specifications of Photonis S563, PHQ 2020 is also suitable for XP2233, XP2237, XP2254, XP2262, XP4222, XP4228 and many others
(**) array with 7 PMTs R8619 and digital interface

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iSeG is a manufacturer of very precise and stable High Voltage Power Supplies with focus on physics and industrial applications. The product portfolio includes AC / DC, DC/DC and modular High Voltage systems. The company was founded in 1995. Continuous growth and innovation strengthened the company’s market position. iSeG is well known for the development of outstanding custom specific solutions for various special applications.