

DC and AC power supply units,  
digital displays with built-in power supply for 2-wire pyrometers

## Power Supplies for IMPAC Pyrometers



### Power supply NG DC: DC power supply unit

**24 V DC**

Input:	100 ... 240 V AC, 50 ... 60 Hz
Output:	24 V DC, 1 A or 2.5 A
Safety approval:	IEC 60950-1 and UL 508C
Housing:	Din rail mount housing, width 27 mm or 45 mm
Series 5:	IN 5 • IN 5 <i>plus</i> • IS 5 • IGA 5 • ISQ 5 • ISQ 5-LO • IS 5-LO/GL
Series 12:	IS 12 • IGA 12 • ISR 12-LO • IGAR 12-LO
Series 50:	IS 50-LO <i>plus</i> • IGA 50-LO <i>plus</i> • ISR 50-LO
Series 140:	IN 140 • IP 140 • IPE 140 • IS 140 • IGA 140
Series 210:	IN 210 • IS 210 • IGA 210
Series 300/310:	IN 300 • IS 300 • IS 310 • IGA 300 • IGA 310
Series 320:	IS 320 • IGA 320
Series 500:	IN 510 • IN 530
Series 2000:	IN 2000
Series 3000:	IN 3000
Scanner:	SCA 5 • SCA 140 • SCA 300

**Reference number:**
**1 A: 3 852 290**
**2.5 A: 3 832 970**


### Power supply NG 0D: DC power supply unit

**24 V DC**

Input:	85 ... 265 V AC, 48 ... 62 Hz
Output:	24 V DC, 600 mA
Housing:	Din rail mount housing, width 67.5 mm. With connectors for IMPAC standard cable (digital pyrometers)
Series 5:	IN 5 • IN 5 <i>plus</i> • IS 5 • IGA 5 • ISQ 5 • ISQ 5-LO • IS 5-LO/GL
Series 12:	IS 12 • IGA 12 • ISR 12-LO • IGAR 12-LO
Series 50:	IS 50-LO <i>plus</i> • IGA 50-LO <i>plus</i> • ISR 50-LO
Series 140:	IN 140 • IP 140 • IPE 140 • IS 140 • IGA 140
Series 210:	IN 210 • IS 210 • IGA 210
Series 300/310:	IN 300 • IS 300 • IS 310 • IGA 300 • IGA 310
Series 320:	IS 320 • IGA 320
Scanner:	SCA 5 • SCA 140 • SCA 300

**Reference number:**
**3 852 540**


### Power supply NG 2D: DC power supply unit with 2 limit switches

**24 V DC**

Input:	85 ... 265 V AC, 48 ... 62 Hz
Output:	24 V DC, 600 mA
Limit switches:	2 change-over contacts, max. 5 A, 250 V AC, response time 9 ms, fall time 20 ms
Signal input:	0/4 ... 20 mA, max. load 250 Ω
Signal output:	0/4 ... 20 mA, max. load 500 Ω
Housing:	Din rail mount housing, width 67.5 mm. With connectors for IMPAC standard cable (digital pyrometers)
Series 5:	IN 5 • IN 5 <i>plus</i> • IS 5 • IGA 5 • ISQ 5 • ISQ 5-LO • IS 5-LO/GL
Series 12:	IS 12 • IGA 12 • ISR 12-LO • IGAR 12-LO
Series 50:	IS 50-LO <i>plus</i> • IGA 50-LO <i>plus</i> • ISR 50-LO
Series 140:	IN 140 • IP 140 • IPE 140 • IS 140 • IGA 140
Series 210:	IN 210 • IS 210 • IGA 210
Series 300/310:	IN 300 • IS 300 • IS 310 • IGA 300 • IGA 310
Series 320:	IS 320 • IGA 320

**Reference number:**
**3 852 550**


## Power supply NG 0S: Lab DC power supply unit

24 V DC

Input:	100 ... 240 V AC, 50 ... 60 Hz
Output:	24 V DC, 1 A
Cable lengths:	5 m pyrometer cable with straight or 90° connector, 1 m RS232 cable, 1.4 m mains power cable
Housing:	Plastic housing, 130 x 130 x 75 (l x w x h)
Series 5:	IN 5 <i>plus</i> • IS 5 • IGA 5 • ISQ 5 • ISQ 5-LO • IS 5-LO/GL
Series 12:	IS 12 • IGA 12 • ISR 12-LO • IGAR 12-LO
Series 50:	IS 50-LO <i>plus</i> • IGA 50-LO <i>plus</i>
Series 140:	IN 140 • IP 140 • IPE 140 • IS 140 • IGA 140
The NG 0S is a fully wired service unit for connection of a digital IMPAC pyrometer with the 12 pin standard connector. It is equipped with power supply, pyrometer connecting cable, RS232 interface cable, targeting light push button, 4 mm female connectors for analog output of the pyrometer and additional 24 V DC output.	

**Reference number:**  
Straight connector: **3 852 530**  
90° connector: **3 852 570**



## Power supply NG AC: AC power supply unit

24 V AC

Input:	230 V AC ± 10%, 50 ... 60 Hz
Output:	24 V AC, 750 mA
Housing:	Din rail mount housing, width 87.5 mm
Scanner:	ROT 5 • ROT 10
Series 12:	All series 12 instruments in combination with ROT scanners
Series 140:	All series 140 instruments in combination with ROT scanners

**Reference number:**  
**3 852 190**



## DA 4000, DA 4000-N: digital displays with power supply for 2-wire pyrometers

24 V DC

Input:	230 V AC option 115 V AC, ± 10%, 48 ... 62 Hz, option 9 ... 32 V DC
Output:	24 V DC, 25 mA
Housing:	Front panel mount housing, cut-out: 92 mm x 45 mm
Limit switches (only DA 4000):	2 change-over contacts, max 6 A, 230 V AC / 30 V DC, response time: max. 350 ms
Series 5:	IN 5
Series 50:	IS 50-LO/GL
Series 210:	IN 210 • IS 210 • IGA 210
Series 300/310:	IN 300 • IS 300 • IS 310 • IGA 300 • IGA 310
Series 2000:	IN 2000
Series 3000:	IN 3000 (only DA 4000-N)

**Reference number:**  
DA 4000: **3 890 650**  
DA 4000-N: **3 890 640**



## DA 6000: digital display with power supply for 2-wire pyrometers

24 V DC

Input:	85 ... 265 V AC, 48 ... 62 Hz oder 18 ... 30 V DC
Output:	24 V DC, 25 mA
Serial interface:	RS232 or RS485
Signal processing functions:	Min., max., average value, sub range function, digitizing of pyrometer output
Housing :	Front panel mount housing, cut-out: 92 mm x 45 mm
Limit switches:	2 change-over contacts, max. 6 A, 400 V AC / 300 V DC response time: max. 5 ms
Series 5:	IN 5
Series 50:	IS 50-LO/GL
Series 210:	IN 210 • IS 210 • IGA 210
Series 300/310:	IN 300 • IS 300 • IS 310 • IGA 300 • IGA 310
Series 2000:	IN 2000

**Reference number:**  
with RS232: **3 890 520**  
with RS485: **3 890 530**



For international contact information,  
visit [advancedenergy.com](http://advancedenergy.com).

[sales.support@aei.com](mailto:sales.support@aei.com)  
+1 970 221 0108

PRECISION | POWER | PERFORMANCE

Specifications are subject to change without notice. Not responsible for errors or omissions. ©2019 Advanced Energy Industries, Inc. All rights reserved. Advanced Energy® and AE® are U.S. trademarks of Advanced Energy Industries, Inc.