



CSV  
EN 60950-1

# IPS24060G

**Switching power supply/Battery charger**  
**providing 60W @ 27.6 V $\overline{=}$**

The IPS24060G switching power supply/battery charger has been designed and manufactured to the highest standards of quality, reliability and performance adopted by INIM Electronics. INIM Electronics guarantees that the components selected for this product will operate properly within their specifications when the environmental conditions outside the enclosure comply with Class 3k5 (EN 60721-3-3).

The IPS24060G unit provides a regulated 27.6V and 1.5A maximum current by means of the +V and -V terminals.

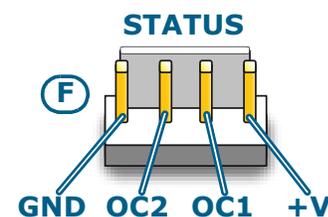
The outputs are overload, short-circuit and reverse polarity protected.

The unit can be equipped with an optional thermal probe (ProbeTH see the INIM catalogue) which is capable of maintaining the battery charge current at the appropriate level for efficient battery charging.

TECHNICAL SPECIFICATION		
Mains supply voltage	230V $\sim$ (-15%/+10%) 50/60Hz	
Absorbed current	0.5A (max)	
Output voltage	27.6V $\overline{=}$ ( $\pm$ 1%)	
Operating output voltage	from 18 to 27.6V $\overline{=}$	
Battery shutdown tension	19V $\overline{=}$	
Maximum output ripple	1%	
Maximum output current	total	2.1A
	for external load	1.5A
	for battery recharge	0.6A
Connectable batteries (or equivalent with case flame class UL94-V2 or higher)	2 x 12V - 7Ah YUASA NP-12 FR	
Unreplaceable protection fuse (F1)	T 3.15A 250V	
Maximum internal resistance of battery	2.7 Ohm	
Operating temperature	from -5 to +40 °C	
Isolation class	I	
Dimensions (W x H x D)	138 x 42 x 87 mm	
Weight	0.450 Kg	



<b>A</b>	Mains input terminal board	<div style="border: 1px solid black; padding: 5px; text-align: center;"> <b>AC Input</b>            230V <math>\sim</math> 50/60 Hz  <b>L N</b> </div>
<b>B</b>	Battery connector	<b>BAT-, BAT+</b>
<b>C</b>	Output terminal board	<b>+V, -V</b>
<b>D</b>	Output connector	<b>RTH, FAULT, -V, +V</b>
<b>E</b>	Thermal probe connector	<b>NTC</b>
<b>F</b>	OC output connector	<b>STATUS</b>
<b>G</b>	Serial port connector (reserved)	<b>SERIAL</b>
<b>H</b>	LED indicators	
<b>I</b>	Ground fault signalling jumper input	
<b>J</b>	Anchor screw hole ( $\varnothing$ 3.25mm)	



## Signalling

The LED indicators [H] signal the presence of the mains voltage on the input terminals and the proper operating capacity of the switching power-supply unit and its batteries.

The Fault signal can be obtained through the "STATUS" input [F] via the two Open-Collector outputs "OC1" and "OC2".

Signalling	Off	On	Blinking	
			fast	slow
Green LED (DL1)	Switching power-supply unit Off	Switching power-supply unit operating	Overheated	Output overload
Yellow LED (DL2)	Mains operating properly	Mains operating fault	Earth fault	/
Yellow LED (DL3)	Batteries operating properly	Battery fault	/	/
Output OC1	Operating properly	Switching power-supply unit fault	/	/
Output OC2	Mains operating properly	Mains operating fault	/	/

Removal of the jumper from the Earth fault signalling connector ([I]) deactivates the Earth fault check.

If this appliance is used with a fire detection control panel all the obligatory status and fault signals must be provided for and made available on the control panel.

## Installation

Connect the mains wiring to the input terminal board [A].

**This appliance must be earthed.**

**Using the plastic cable band, bunch the mains wires and fasten them close to the mains wire entry on the Switching power-supply unit.**

**ATTENTION!**

Using the two mounting holes [J], secure the IPS24060G into its housing.

The output voltage can be drawn from either terminals [C] (" +V, -V"), or from the connector [D] (" +V, -V").

The output connector is also has "FAULT" and "RTH" terminals which are reserved for connection to INIM control panels.

If you are installing a ProbeTH thermal probe, connect it to connector [F].

Attach the thermal probe to one of the batteries in such a way as to achieve an optimal level of thermal conductivity.

**If this appliance is used with a fire detection control panel, it is obligatory to fit it with a thermal probe.**

**ATTENTION!**

## Maintenance

The following maintenance operations must be performed regularly:

- Check that all wiring and connections are intact.
- Check that the appliance is operating properly.
- Check the battery efficiency.

**These maintenance operations must be performed by qualified persons only. For an installation that meets standard requirements, it is necessary to fit a suitable sectioning device (bipolar) and protection on the electrical-wiring upstream of the switching power-supply unit in accordance with the laws in force (DM37/08).**

**ATTENTION!**

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**ISO 9001 Quality Management Certificate**  
**issued by BSI with certificate number**  
**FM530352**

INIM Electronics reserves the right to change the information contained in the present insert without prior notice.