IMP series Power supply module technical index(3 phase input)

| Mode | IMP22030-3D | IMP11060A-3D |
|---|---|---|
| Input voltage （AC） | 130 ~ 520V(Nominal 300 ~ 520V) | |
| Input current（A） | 26 | |
| Power（KW） | 9 | |
| Input frequency range（HZ） | 45 ~ 65 | |
| Power Factor | ⩾ 0.99 | |
| Nominal output voltage（DC） | 220 | 110 |
| Adjustable output voltage range（DC） | 190 ~ 300 | 90 ~ 150 |
| Voltage Stabilization Accuracy | ±0.5% | |
| Current Stabilization Accuracy | ±1% | |
| Nominal output current（A） | 30 | 60 |
| Efficiency | ⩾ 97% | ⩾94% |
| Default value of the charging voltage(V) | 240 | 120 |
| O/p Over voltage （V） | 320V±5DC | 160V±5DC |
| Parallel unequal current ratio | ⩽ ±3% | |
| Weight（KG） | 16.5 | |
| Dimension | 482x92x385 | |
| IP degree | IP 20 | |
| Cooling | Fan Cooled | |
| Working temperature（℃） | -25 ~ 55 | |
| Store temperature（℃） | -40 ~ 85 | |
| Automatic current limiting protection | When the output current exceeds the limit current, it will be constant current output, and the output current does not increase. | |
| Output short circuit protection | When the output is shorted,the module has self-protection to prevent damage. When faults removed, it can be auto recovered. | |

Info-matic power Sdn Bhd

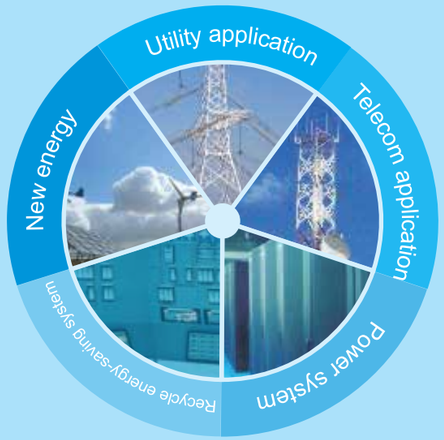
Powermore

# IMP Series Power Supply Module


Website：www.imp-ups.com.my

CONTACT
Tel: +03-4131 0878
Fax: +03-4142 8229

**ADDRESS**
NO.5 & 5-1, JALAN 2/27E, SEKSYEN 10,
WANGSA MAJU, 53300 KUALA LUMPUR




- Utility Application
- Telecom Application
- Power System Application
- New energy Application
- Recycle energy-saving system Application

## ◎ Product description

IMP Series power supply module is designed for power system, advanced modular design, high power density, small size, light weight, high efficiency, high reliability, easy maintenance, etc., And N+1 design,users can increase module numbers at any time to meet the actual needs.

Power supply Module has 220V and 110V series. Both types has standard RS-485 interface, easy matching with automation systems, real-time monitoring.

The main application areas: industrial control systems, battery charging, for all types of DC load power supply, substations, power plants and hydroelectric power plants.

## ◎ IMP series MODULE FEATURES

- Efficiency: ≧97%
- Dual soft-switching technology and circuit topology
- Small volume, light weight
- Power factor:0.99
- Isolation Automatic Current,multiple modules in parallel, the uneven flow of the <± 3%;
- Built-in DC output isolation diode module
- Cooling: forced air with in front of module which is easy to replace.
- RS-485 communication interface
- Protection: Overvoltage, undervoltage, overtemperature, overload, and alarms.

## ◎ System features

- Modular design, N + 1 , easy for expansion.
- System consists of rectifier modules, DC power distribution,to achieve full parameters of local and remote monitoring; major Monitoring are: charging mode, the output voltage regulation, output current limit setting, battery management.
- Monitoring system with a standard RS-485 interface for easy access to automated systems.
- Battery management: real-time monitoring battery voltage, the charge and discharge current, automatic control for boost charge and float charge.
- With a battery temperature compensation function
- Hot-swappable modules , safe and convenient replacement

## ◎ Technical characteristics

### Insulation resistance

| | |
|---|---|
| Input & output | The test voltage 500VDC, insulation resistance ⩾2M (normal atmospheric pressure, ambient temperature, relative humidity <90%, non-condensing) |
| Input & chassis | |
| Output & chassis | |

### Dielectric strength

| | |
|---|---|
| Input & output | DC voltage 4240VDC 1minute⩽30mA |
| Input & chassis | DC voltage2120VDC 1minute⩽30mA |
| Output & chassis | DC voltage710VDC 1minute⩽30mA |

### Others

| | |
|---|---|
| Communications interface | RS 485 |
| Humidity | ⩽ 90 % RH |
| Climatic conditions | IEC–68–2–2, IEC–68–2–3, IEC–68–2–6 |
| Max. Installation altitude | ⩽2000 m |
| Audible noise | < 50 db |
| Connections | AC Input DC Output and Signalization at rear |
| CE conformity | Yes |
| Compliance to EMC standards | EN61000–4–2, EN–61000–4–6 |
| | EN–61000–4–3, EN–61000–4–12 |
| Air Pressure | 70–106 Pa |

### IMP series power supply module technical index(Single phase)

| Mode | IMP22010-3D | IMP11020-3D |
|---|---|---|
| Input voltage（AC） | 75 ~ 300V(Nominal 175 ~ 300V) | |
| Input voltage（DC） | 75 ~ 320V(Nominal 160 ~ 300V) | |
| Input current（A） | 16 | |
| Power（KW） | 3 | |
| Input frequency range（HZ） | 45 ~ 65 | |
| Power Factor | ⩾ 0.99 | |
| Nominal output voltage（DC） | 220 | 110 |
| Adjustable output voltage range（DC） | 190 ~ 300 | 90 ~ 150 |
| Voltage Stabilization Accuracy | ±0.5% | |
| Current Stabilization Accuracy | ±1% | |
| Nominal output current（A） | 10 | 20 |
| Efficiency | ⩾96% | ⩾94% |
| Default value of the charging voltage(V) | 240 | 120 |
| O/p Over voltage （V） | 320V±5DC | 160V±5DC |
| Parallel unequal current ratio | ⩽±3% | |
| Weight（KG） | 2.4 | |
| Dimension | 103x88x261 | |
| IP degree | IP 20 | |
| Cool | Fan Cooled | |
| Working temperature（℃） | -25 ~ 55 | |
| Store temperature（℃） | -40 ~ 85 | |
| Automatic current limiting protection | When the output current exceeds the limit current, it will be constant current output, and the output current does not increase. | |
| Output short circuit protection | When the output is shorted,the module has self-protection to prevent damage. When faults removed, it can be auto recovered. | |

# Telecommunication Site at Sikamat/ Bukit Batu






Info-Matic Power Sdn Bhd

## *PROOF OF CONCEPT LITHIUM METAL BATTERY TESTING*

*Company :* imp

*Test At Site :* ***TELECOMMUNICATION SITE AT SIKAMAT/ BUKIT BATU***
***Coordinate -Lat 276526, Long 101.9977***

*Unit Under Test :* imp ***Lithium Metal Battery***

***RECTIFIER***

*Brand :* Huawei R4850G
*Capacity :* 3 x 50 Amps
*Battery Model :* Cyclone 48-200 ( 48vdc, 200Ah )
*Battery Quantity :* 2 Packs
*Type Of Connection :* Parallel
*Standard Test Request :* Battery backup when incoming supply failure.

*Result Of Test :* ☑ **PASS** ☐ **FAIL**

***Perform by***

***Witness by***

AZRIL IDRIS
ASIA TECHNIQUE SERVICES
(0022A3326-W)
9 JALAN RABUNG U8/36A