

NETWORK PROTECTION UNIT

An innovative solar solution fully approved By distributed network service providers

Our Network Protection Units (NPU) contain an approved protection relay and are specifically designed to protect the electrical network by isolating the solar generator if the power quality is outside set parameters. These protections required by DNSP's include under/over voltage, under/over frequency, ROCOF, Anti-Islanding. Our NPU's protects the grid as well as electricity workers from solar generators staying on the grid in fault conditions.

Above 30kw solar systems

Australian Distribution Network Service Providers (DNSP's) classifies 3-phase solar PV systems with over 30KW of capacity as large embedded generation. Large embedded generating systems require network protection by an approved protection relay to ensure that solar PV generation is compliant. Our Network Protection Units (NPUs) include an anti-islanding relay feature with vector shift and rate change of frequency (ROCOF). We also provide motorised circuit breaker and distribution for inverters circuit breakers, all of which are enclosed in an IP66 metal powder coated cabinet to make for easy installation.

We also provide services including single line diagrams, commissioning plans and DNSP applications.

Major benefits

- Designed by network protection specialists.
- Engineered by certified professionals.
- Quality controlled with trusted brand name components.
- Provision of technical support and commissioning services.
- Provision of single line drawings for solar applications to DNSPs.
- Full compliance, easy installation and operation.
- Designed by accredited solar installer.
- Australian made, nationwide availability.
- Greater protection for the grid and electricity workers.
- Perfect integration solution, compatible all inverters.



AE RENEWABLE
SOLUTIONS



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TECHNICAL INFORMATION

Specifications

Protection Relay
Motorised Circuit Breaker
Inverter Circuit Breakers
Cabinet Dimensions
Weight

ComAp MainsPro
Schneider NSX
Provision For Schneider
800 x 600 x 400
70KG

Model

NPU 100

Rating

160 A - 18 POLE

Approved for

- NSW •
- SA •
- VIC •

Options

- Customised panels •
- Onsite commissioning •
- LGC monitoring •

Overall our product meets the requirements of the DNSPs by containing the approved ComAp MainsPro relay. We use high quality products proven in the field for longevity. All packaged into an IP66 steel powder coated cabinet with chassis for inverter circuit breakers, solar disable switch and easy to install design by solar accredited electrical contractor. It is installed between the main switchboard and the solar inverters.

Features

Motorised circuit breaker

- Meets utility requirements
- RCOF feature
- Wall mount brackets

IP66 metal powder coated enclosure

- Made in Australia



ComAp MainsPro protection relay – approved in all states IEC certified

- Anti-islanding relay •

Customizable options

- Available through wholesalers •

Provision for inverter circuit breakers

- Compatible with all inverters •



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