



UNIDADE DE GESTÃO DE PROJECTOS ESPECIAIS

CABO VERDE RENEWABLE ENERGY AND IMPROVED UTILITY PERFORMANCE PROJECT

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Country: Cabo Verde

Name of Project: Renewable Energy and Improved Utility Performance Project

Contract Title: Supply, Installation and Commissioning of Grid-Connected Photovoltaic Systems for self-consumption of the Health Centers of Cabo Verde and Equipment for Energy Efficiency

Grant: Canada Clean Energy and Forest Climate Facility Grant No - TF-B6853

RFB Reference No.: 011/REIUP/UGPE

NOTIFICATION Nº 3

Question Nº 2:

We are herewith submitting the following technical request of clarification to the following requirement:

Electrical requirements of PV Modules:

PV modules must comply with the following electrical requirements:

- ☒ Unit power equal or bigger than 500W.***
- ☒ Efficiency at STC equal or higher than 20%;***
- ☒ STC peak power positive tolerance equal or higher than 1%;***
- ☒ Junction box with minimum IP67 protection with a minimum of 3 bypass diodes;***
- ☒ Male and female plug with minimum IP67 protection;***
- ☒ Admit maximum system voltage of 1000 V;***
- ☒ Admit reverse current equal or higher than 16 A;***

As you are aware, units may have smaller size (less than 500W) without affecting efficiency at STC. Within certain limits, a smaller size may have certain advantages towards bigger modules mostly in terms of ease to handle, safety of workers during installation, size of ballasts for flat slab roofs. Comparing units with same efficiency (above 20%), between a 400W or a 500W unit, there is no substantial difference in the covered area.

We would like also to add that smaller size makes more efficient transport as well, improving the environmental sustainability of the project.

For the above reasons, we are kindly asking you to consider approving the following changes to the “Unit Power” of PV Modules as indicated in the specifications (see above the extract), which give still open options to the bidders, but with a wider range:

OLD REQUIREMENT: ***☒ Unit power equal or bigger than 500W.***

NEW REQUIREMENT: ***☒ Unit power equal or bigger than 400W.***

Efficiency required remains as indicated equal or higher than 20% as well as all other requirements.



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Answer UGPE Nº 2:

The requirement remain the same: **Unit power equal or bigger than 500W.**

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