

TORAY

Innovation by Chemistry

July 16 2011
International PV module QA Forum

Proposal for PV Rating System



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**Environment & Energy
Development Center**

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Requirements for Cryst-Si Module (conceptual)

| Climate in region | Mounting Configuration | | | |
|------------------------------------|------------------------------------|--|--|----------|
| | Roof-fit | Roof top (Close roof) | Open Rack (on Field or Roof) | Tracking |
| High mountain | TE * UVF*** TC,HF** SL*** | TE * UVF*** UVB* TC,HF** SL*** | TE * UVF*** UVB** TC,HF** SL*** | ? |
| High latitude region (Low temp) | TE * UVF** TC,HF** SL*** | TE * UVF** UVB* TC,HF** SL*** | TE * UVF** UVB* TC,HF** SL*** | ? |
| Middle latitude region (Moist) | TE** UVF** TC,HF** SL** | TE ** UVF** UVB* TC,HF*** SL** | TE * UVF** UVB* TC,HF** SL*** | ? |
| Middle latitude region (Dry) | TE** UVF** TC,HF** SL** | TE ** UVF** UVB* TC,HF** SL** | TE * UVF** UVB* TC,HF** SL*** | ? |
| Low latitude region (Moist) | TE*** UVF** TC,HF*** SL** | TE ** UVF** UVB* TC,HF*** SL** | TE ** UVF** UVB* TC,HF*** SL*** | ? |
| Low latitude region (Dry) | TE*** UVF*** TC,HF*** SL** | TE *** UVF*** UVB* TC,HF*** SL*** | TE ** UVF*** UVB** TC,HF*** SL*** | ? |

Thermal Endurance (TE) :

UV / front side (UVF)

UV / Back side (UVB)

Thermal Cycling or HF (TC,HF with BIAS?):

SNOW& WIND (Static Load) (SL):

X

additional

| | |
|----------|-----------------|
| location | |
| Marine | Salt spray test |
| Farmland | Ammonia test |