**Projekt: „Słoneczna Żywiecczyzna”**

Grantodawca: Związek Międzygminny ds. Ekologii w Żywcu ul. Ks. Pr. St. Słonki 22, 34-300 Żywiec

Operator Projektu: ASCALOR Sp. z o.o. ul.Radawska 10, 37-522 Wiązownica

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| **LISTA nr 5 - URZĄDZEŃ SPEŁNIAJĄCYCH MINIMALNE PARAMETRY TECHNICZNE** |
| *miejsce na liście wynika wyłącznie z kolejności alfabetycznej* |
| *lista zawiera urządzenia zgłoszone do udziału w Projekcie Słoneczna Żywiecczyzna przez Wykonawców* |
| **PANELE FOTOWOLTAICZNE**

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| ***PRODUCENT/NAZWA PANELI*** | ***TYP, MODEL*** |
| **Aleo Solar** | X63L**333** |
| **Bauer Solartechnik** | BS-6MHB5-EL; **330,335,340** |
| **Bruk-Bet Solar** | BEM-**320** W BEM-**390** W |
| **Canadian Solar** | CS3U **380**MS CS3U **385**MS CS3U **390**MSCS3U **395**MS CS3U **400**MS |
| **DAH Solar** | HCM72X9-**400**W HCM72X9-**405**W HCM72X9-**410**W HCM72X9-**415**W HCM60X9-**325**W HCM60X9-**330**W HCM60X9-**335**W HCM60X9-**340**W HCM60X9-**345**W |
| **EcoDelta** | ECO-**330**M-60DHC black; ECO-**325**M-60DHC black ;ECO-**380**M-66SA ECO-**385**M-66SA ECO-**390**M-66SA;ECO-**395**M-66SA ECO-**400**M-66SA |
| **EcoGreen Energy** | EGE-**320**M-60 |
| **Empire Group** | EMP-**340**S60AH |
| **Enging** | EG-**340**M60-HD |
| **EXE Solar** | A-HCM**330**/120; A-HCM**345**/120 |
| **Heckert Solar** | Nemo 2.0 60M **305-330;** |
| **Hyundai** | HiE-S**340**SG; HiE-S**345**SG; HiE-S**350**SGHiE-S**385**VG HiE-S**390**VG HiE-S**395**VG HiE-S**400**VG |
| **IBC** | **330**MS-HC, **335**MS-HC, **340**MS-HC |
| **Jasolar** | JAM60S10-**340;** JAM60S10-**340**/PR; JAM60S10-**340**/MR;JAM60S10-**345**/MR/BF; JAM60S20-**370**/MR/BF; JAM60S20-**380**/MR-BF |
| **Jiangsu SunLink PV Technology Co., Ltd** | **345** Mono |
| **JINKO** | JKM**330**M-60H-V; JKM**390**M-72H JKM**395**M-72H JKM**400**M-72H JKM**405**M-72H JKM**410**M-72H; JKM**390**M-72H-V JKM**395**M-72H-V JKM**400**M-72H-V JKM**405**M-72H-V JKM**410**M-72H-V |
| **KiotoSolar** | KPVMENEC **320**/**325/330**; |
| **LG** | LG**340**N1K-V5 LG**335**N1K-V5 LG**330**N1K-V5 LG**325**N1K-V5 LG**355**N1C LG**350**N1C LG**345**N1C LG**340**N1C |
| **LONGI** | LR4-72HPH **435**M; LR4-60HPH **360**M; LR4-60HPH **365**M; LR4-60HPH **370**M; LR6-60OPH**-350**M; LR6-60HPH **320**M; LR4-60HIH **350**M; LR4-60HIH **355**M; LR4-60HIH **360**M; LR4-60HIH **365**M; LR4-60HIH **370**M; LR4-60HIH **375**M; LR4-60HIH **380**M |
| **Longi Solar** | LR4-72HPH-**425**M LR4-72HPH-**430**M LR4-72HPH-**435**M LR4-72HPH-**440**M LR4-72HPH-**445**M LR4-72HPH-**450**M LR4-72HPH-**455**M |
| **ML System** | ML-S6MF/T1**-330-**1002/1684;ML-S6MF/T1-**400**-1004/2024;ML-S6MF/T1-**375**-120; |
| **MPSolarGroup** | MP-M-**340**; MP-M-**345**; MP-M-**350** |
| **PHONO SOLAR** | PS**330**M1-20/UH; PS**370**M4-20/UH PS**375**M4-20/UH; PS**340**M3-20/UM |
| **Q.CELLS** | Q.PEAK DUO BLK-G8 **340-350**;Q.PEAK DUO BLK-G9+ **330**; Q.PEAK DUO BLK-G9+ **335**; Q.PEAK DUO BLK-G9+ **340**; Q.PEAK DUO BLK-G9+ **345**; Q.PEAK DUO ML-G9 **370**; Q.PEAK DUO ML-G9 **375**; Q.PEAK DUO ML-G9 **380**; Q.PEAK DUO ML-G9 **385**; Q.PEAK DUO ML-G9 **390**;Q.PEAK DUO-G5 **320-330**;Q.PEAK DUO-G6 **340-355**;Q.PEAK DUO-G6 **350**;Q.PEAK DUO-G7 **325-335**;Q.PEAK DUO-G7 **335**; Q.PEAK DUO-G8 **340-360**; |
| **REC** | REC**360**AA; REC**365**AA; REC**370**AA; REC**375**AA; REC**380**AA; REC **320**NP; REC**325**NP; REC**330**NP; |
| **RISEN** | RSM120-6**-325-340**M |
| **Saronic** | SR-**320**-60M; SR-**395**-144M; SR-**400-**144M; SR**-405**-144M; SR-**410**-144M |
| **Selfa** | SV120M.5(3)**-335**; SV120M.5(3)-**330;**SV120M.3.2-**360;** SV120M.3.2-**365;** SV120M.3.2-**370** |
| **Seraphim** | SRP-**325**-BMBSRP-**325**-BMB-HV SRP-**330**-BMB SRP-**330**-BMB-HVSRP-**335**-BMBSRP-**335**-BMB-HV SRP-**340**-BMB-HV SRP-**345**-BMB-HVSRP-**360**-BMB-HV SRP-**365**-BMB-HV SRP-**370**-BMB-HV SRP-**375**-BMB-HV |
| **SHARP** | NU-JC**330**; NU-JB**395**; NU-BA**385**; NU-BA**380**; NU-JC**320**B; NU-JD**439** |
| **Sinosola** | SA**355**-120M; SA**360**-120 M; SA**365**-120 M; SA**370**-120M; SA**320**-120M; SA**325**-120M; SA**330**-120M; SA**335**-120M; SA**340**-120M; SA**345**-120M |
| **Solar Fabrik** | Mono S3 **365**W; Mono S3 **370**W; Mono S3 **375**W; Mono S2 **330**W; Mono S2 **335**W; Mono S2 **340**W; |
| **Sunergy USA WORKS LLC** | SUN**340**-60M-HF |
| **Sunpro** | **340** HieFF Twin RA-L |
| **SUNTECH** | HyPro STP**335**S-325S -A60/Wfh; HIPro STP**330**S-A60/WnhSTP**320**S-A60/Wnhb; STP**325**S-A60/Wnhb; STP**330**S-A60/Wnhb; STP**335**S-A60/Wnhb; STP**340**S-A60/Wnhb ;STP**320**S-A60/Wfhb; STP**325**S-A60/Wfhb STP**330**S-A60/Wfhb; STP**335**S-A60/Wfhb; STP**340**S-A60/Wfhb;STP**320**S-20/Wfh hSTP**350**S-B60/Wnh; STP**355**S-B60/Wnh; STP**360**S-B60/Wnh; STP**365**S-B60/Wnh;STP**370**S-B60/Wnh; STP**375**S-B60/Wnh;STP**395**S-A72/Vfh; STP**400**S-A72/Vfh; STP**405**S-A72/Vfh |
| **Sunrise Energy** | SR-M660 **325**HL; SR-M660 **330**HL; SR-M660 **335**HL; SR-M660 **340**HL |
| **TrinaSolar** | TSM-**325** DE06M.08(II) TSM-**330** DE06M.08(II) TSM-**335** DE06M.08(II) TSM-**340** DE06M.08(II) TSM-**345** DE06M.08(II) TSM-**360** DE08M.08(II) TSM-**365** DE08M.08(II) TSM-**370** DE08M.08(II) TSM-**375** DE08M.08(II) TSM-**380** DE08M.08(II) |
| **Ulica solar** | UL-**355**M-120; UL-**360**M-120; UL-**365**M-120; UL-**370**M-120; UL-**375**M-120;UL-**405**M-144; UL-**410**M-144; UL-**415**M-144; UL-**435**M-144; UL-**440**M-144; UL-**445**M-144;UL-**450**M-144; |
| **Viessmann** | Vitovolt 300 M**335**WA, M**340**WA |
| **Winaico** | WST-**325**M6 WST-**330**M6 |
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| **INWERTER** |
| ***PRODUCENT/NAZWA*** | ***TYP, MODEL*** |
| **ABB** | Trio 5.8TL-Outd Trio 7.5TL-Outd Trio 8.5TL-Outd |
| **Afore** | BNT003KTL; BNT004KTL; BNT005KTL; BNT006KTL; BNT008KTL; BNT010KTL |
| **FRONIUS** | PRIMO 3.0-1-3.6-1; SYMO 3.0-3-S-10.0-3-M; |
| **Growatt** | 1500S; 2000S; 3000S;3000TL3-S; 4000TL3-S; 5000TL3-S; 6000TL3-S;7000TL3-S; 8000TL3-S; 9000TL3-S; 10000TL3-S; 11000TL3-S |
| **Huawei** | SUN2000 KTL-M0/M1 3.0-10 KW; SUN2000 KTL-3-M0; SUN2000 KTL-4-M0; SUN2000 KTL-5-M0; SUN2000 KTL-6-M0; SUN2000 KTL-8-M0; SUN2000 KTL-10-M0;SUN2000 KTL-12-M0; SUN2000 KTL-15-M0; SUN2000 KTL-17-M0; SUN2000 KTL-20-M0; SUN2000L-2KTL; SUN2000L-3KTL; SUN2000L-3,68KTL |
| **Hypontech** | HPT-3000, HPT-4000, HPT-5000, HPT-6000, HPT-8000, HPT-10000 |
| **SMA** | Sunny Tripower 3.0; Sunny Tripower 4.0; Sunny Tripower 5.0; Sunny Tripower 6.0; Sunny Tripower 8,0; Sunny Tripower 10,0; Sunny Boy 1,5; Sunny Boy 2,0, Sunny Boy 2,5 |
| **Sofar** | 3,3KTL-X; 4,4KTL-X; 5,5KTL-X; 6,6KTL-X; 8,8KTL-X; 11KTL-X; 12KTL-X; 3KTLM-G2 3,6KTLM-G2 |
| **SolarEdge** | SE3K, SE4K, SE5K, SE6K, SE7K, SE8K, SE9K, SE10K; SE12,5K, SE15K, SE16K, SE17K, SE2200H, SE3000H, SE3500H, SE3680H |
| **Solis** | Solis-1P2,5K-4G; Solis-1P3K-4G; Solis-1P3,6K-4G;Solis-3P3K-4G; Solis-3P4K-4G; Solis-3P5K-4G;Solis-3P6K-4G; Solis-3P8K-4G; Solis-3P9K-4G;Solis-3P10K-4G |
| **Steca** | StecaGrid 4213 StecaGrid 5513 StecaGrid 7013 StecaGrid 8513 StecaGrid 10013;StecaGrid 3213 StecaGrid 4013 StecaGrid 5013 StecaGrid 6013 |

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**TERMINAL DOSTĘPOWY**

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| ***PRODUCENT/NAZWA***  | ***TYP, MODEL*** |
| **MCD ELECTRONICS**  |  DH-MWT-20 + DHMWL-20.  ***Urządzenie rekomendowane przez ZMGE w Żywcu*** |
| **PV-MONITOR** | SYSTEM 3F+3F; 1F+3F; 1F+1F,  ***Urządzenia dopuszczone przez ZMGE w Żywcu*** |
| **SOLAR-LOG** | Solar Log Base 15 + Pro 380 mod Solar Log 50 + licznik PRO380 ModSolar Log 250 + licznik PRO380 Mod ***Urządzenia dopuszczone przez ZMGE w Żywcu*** |
| **HEWALEX** | System G432 Opti-Ener ***Urządzenia dopuszczone przez ZMGE w Żywcu*** |