**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**   |  |  | | --- | --- | | ***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**MS  CS3U **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**SG  HiE-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**-BMB  SRP-**325**-BMB-HV SRP-**330**-BMB SRP-**330**-BMB-HV  SRP-**335**-BMB  SRP-**335**-BMB-HV SRP-**340**-BMB-HV SRP-**345**-BMB-HV  SRP-**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/Wnh  STP**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 h  STP**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 | |  |  | | **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 | |

**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 Mod  Solar Log 250 + licznik PRO380 Mod  ***Urządzenia dopuszczone przez ZMGE w Żywcu*** |
| **HEWALEX** | System G432 Opti-Ener  ***Urządzenia dopuszczone przez ZMGE w Żywcu*** |