Certificate of Conformity (COC)

Certificate holder / *Titolare del certificato*	:	**WeCo SRL** Viale Kennedy 113-121 Scarperia e San Piero, Firenze, Italy
Date of Original Issue / *Data di emissione originale*	:	2024-04-19
Date of Last Revision / *Data dell'ultima revisione*	:	--
Date of Expiry / *Data di scadenza*	:	2027-04-18
Certificate Number / *Numero di certificato*	:	PCS-24-1042
Brand/ Trademark / *Marchio*	:	WECO ESS

Type of generating unit / *Tipologia di apparat* :

Interface device / *Dispositivo di interfaccia*	**Interconnection protectiondevice** / *Protezione di interfaccia*	**Static Power Converter** / *Dispositivo di conversionestatica*	**Rotatory Power Converter** /*Dispositivo di generazione rotante*
--	X	X	--

Models / *Modelli* :	:	See appendix on page 2 to page 7
Technical Data: / *Dati Tecnici*:	:	See appendix on page 2 to page 7
Test Laboratory / *Laboratorio di prova:*	:	SGS-CSTC Standards Technical Services Co., Ltd. Suzhou Branch
Testing Report(s) / *Rapporto/i di prova:*	:	SUEE240300002551

Test Standard(s) / *Standard/i di prova:* :

CEI 0-16:2022-03+V1:2022-11 "Reference technical rules for the connection of active and passive consumers to the HV and MV electrical networks of distribution Company" ***Allegato Nbis.***

CEI 0-16:2022-03+V1:2022-11 *"Regola tecnica di riferimento per la connessione di Utenti attivi e passivi alle reti AT ed MT delle imprese distributrici di energia elettrica", **Allegato Nbis.***

Having assessed tests reports issued by laboratories accredited under the requirements of the ISO / IEC 17025, / *Avendo valutato i rapporti di prova rilasciati da laboratori accreditati secondo i requisiti della norma ISO / IEC 17025*
This is to certify that the product has been tested and was found to comply with the requirements of the standard(s). / *La presente attesta che il prodotto è stato testato e risulta conforme ai requisiti dello standard (s).*
The above-mentioned product is certified according to the requirements of ISO/IEC 17065:2012. / *Il suddetto prodotto è certificato secondo i requisiti di ISO / IEC 17065: 2012.*

Accredited Certification Body SAC
PD-2016-15

Christopher Hee
Certification Officer
SGS Testing & Control Services Singapore Pte Ltd
30 Boon Lay Way #03-01 Singapore 609957

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APPENDIX / *APPENDICE*

Certificate Number / *Numero di certificato* : PCS-24-1042

Model	HYBO-TL 120/120	HYBO-TL 120/180	HYBO-TL 180/120
PV			
Max. input voltage (V)	680		
MPPT input voltage range (V)	200~650		
Max. input power (kW)	168	252	168
Max. input current (A)	200*2	200*3	200*2
Number of MPPT channels	2	3	2
Battery			
Battery type	Lithium-ion		
Battery voltage range (V)	680~1000		
Max. charge/discharge current (A)	176/176	264/176	264/264
Max. charge/discharge power (kW)	120/120	180/120	180/180
AC Output			
AC nominal power (kW)	120	120	180
AC nominal voltage (V)	400, 3L/N/PE		
Rated output current (A)	172	172	258
Max output current (A)	172	172	258
AC output frequency (Hz)	50/60		
Output power factor	-0.8~+0.8		
General Data			
Operating temperature range	-20 ºC ~ +60 ºC (>50°C, derating)		
Protection degree	IP20		
Protective class	Class I		
Cooling method	Forced air Cooling		

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APPENDIX / *APPENDICE*

Certificate Number / *Numero di certificato* : PCS-24-1042

Model	HYBO-TL 120/120-OD	HYBO-TL 120/180-OD	HYBO-TL 180/120-OD
PV			
Max. input voltage (V)	680		
MPPT input voltage range (V)	200~650		
Max. input power (kW)	168	252	168
Max. input current (A)	200*2	200*3	200*2
Number of MPPT channels	2	3	2
Battery			
Battery type	Lithium-ion		
Battery voltage range (V)	680~1000		
Max. charge/discharge current (A)	176/176	264/176	264/264
Max. charge/discharge power (kW)	120/120	180/120	180/180
AC Output			
AC nominal power (kW)	120	120	180
AC nominal voltage (V)	400, 3L/N/PE		
Rated output current (A)	172	172	258
Max output current (A)	172	172	258
AC output frequency (Hz)	50/60		
Output power factor	-0.8~+0.8		
General Data			
Operating temperature range	-20 ºC ~ +60 ºC (>50°C, derating)		
Protection degree	IP54		
Protective class	Class I		
Cooling method	Forced air Cooling		

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APPENDIX / *APPENDICE*

Certificate Number / *Numero di certificato* : PCS-24-1042

Model	HYBO-TL 180/180	HYBO-TL 180/240	HYBO-TL 240/180	HYBO-TL 240/240
PV				
Max. input voltage (V)	680			
MPPT input voltage range (V)	200~650			
Max. input power (kW)	252	366	252	366
Max. input current (A)	200*3	200*4	200*3	200*4
Number of MPPT channels	3	4	3	4
Battery				
Battery type	Lithium-ion			
Battery voltage range (V)	680~1000			
Max. charge/discharge current (A)	264/264	352/264	352/352	352/352
Max. charge/discharge power (kW)	180/180	240/180	240/240	240/240
AC Output				
AC nominal power (kW)	180	180	240	240
AC nominal voltage (V)	400, 3L/N/PE			
Rated output current (A)	258	258	344	344
Max output current (A)	258	258	344	344
AC output frequency (Hz)	50/60			
Output power factor	-0.8~+0.8			
General Data				
Operating temperature range	-20 ºC ~ +60 ºC (>50°C, derating)			
Protection degree	IP20			
Protective class	Class I			
Cooling method	Forced air Cooling			

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Model	HYBO-TL 180/180-OD	HYBO-TL 180/240-OD	HYBO-TL 240/180-OD	HYBO-TL 240/240-OD
PV				
Max. input voltage (V)	680			
MPPT input voltage range (V)	200~650			
Max. input power (kW)	252	366	252	366
Max. input current (A)	200*3	200*4	200*3	200*4
Number of MPPT channels	3	4	3	4
Battery				
Battery type	Lithium-ion			
Battery voltage range (V)	680~1000			
Max. charge/discharge current (A)	264/264	352/264	352/352	352/352
Max. charge/discharge power (kW)	180/180	240/180	240/240	240/240
AC Output				
AC nominal power (kW)	180	180	240	240
AC nominal voltage (V)	400, 3L/N/PE			
Rated output current (A)	258	258	344	344
Max output current (A)	258	258	344	344
AC output frequency (Hz)	50/60			
Output power factor	-0.8~+0.8			
General Data				
Operating temperature range	-20 ºC ~ +60 ºC (>50°C, derating)			
Protection degree	IP54			
Protective class	Class I			
Cooling method	Forced air Cooling			

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APPENDIX / *APPENDICE*

Certificate Number / *Numero di certificato* : PCS-24-1042

Model	HYBO-TL 120P	HYBO-TL 180P	HYBO-TL 240P	HYBO-TL 300P
Battery				
Battery type	Lithium-ion			
Battery voltage range (V)	680~1000			
Max. charge/discharge current (A)	176/176	264/264	352/352	440/440
Max. charge/discharge power (kW)	120/120	180/180	240/240	300/300
AC Output				
AC nominal power (kW)	120	180	240	300
AC nominal voltage (V)	400, 3L/N/PE			
Rated output current (A)	172	258	344	430
Max output current (A)	172	258	344	430
AC output frequency (Hz)	50/60			
Output power factor	-0.8~+0.8			
General Data				
Operating temperature range	-20 ºC ~ +60 ºC (>50°C, derating)			
Protection degree	IP20			
Protective class	Class I			
Cooling method	Forced air Cooling			

Model	HYBO-T 120P-OD	HYBO-TL 180P-OD	HYBO-TL 240P-OD	HYBO-TL 300P-OD
Battery				
Battery type	Lithium-ion			
Battery voltage range (V)	680~1000			
Max. charge/discharge current (A)	176/176	264/264	352/352	440/440
Max. charge/discharge power (kW)	120/120	180/180	240/240	300/300
AC Output				
AC nominal power (kW)	120	180	240	300
AC nominal voltage (V)	400, 3L/N/PE			
Rated output current (A)	172	258	344	430
Max output current (A)	172	258	344	430
AC output frequency (Hz)	50/60			
Output power factor	-0.8~+0.8			
General Data				
Operating temperature range	-20 ºC ~ +60 ºC (>50°C, derating)			
Protection degree	IP54			
Protective class	Class I			
Cooling method	Forced air Cooling			

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APPENDIX / *APPENDICE*

Certificate Number / *Numero di certificato* : PCS-24-1042

Battery information	
Trademark	**WECO**
Model	**14K3**
Battery type	LFP
Cell Configurations	1P16S
Rated Capacity (Ah)	280
Rated Energy (KWh)	14.3
Rated Voltage (V)	51.2
Battery voltage range (V)	44.8~58.4
Standard Charge/Discharge Current (A)	140/140
Cooling Type	Forced air Cooling

Battery cluster information		
Number of battery clusters	**1**	**2**
Battery Configurations	1P15S / 1P16S / 1P17S	2P15S / 2P16S / 2P17S
Battery clusters Rated Voltage (V)	768 / 819.2 / 870.4	
Battery clusters voltage range (V)	672~876 / 716.8~934.4 / 761.1~992.8	
Battery clusters Capacity (Ah)	280	560
Battery clusters Rated Energy (KWh)	214.5 / 228.8 / 243.1	429 / 457.6 / 486.2
Standard Charge/Discharge Current (A)	140/140	280/280
Number of battery clusters	**3**	**4**
Battery Configurations	3P15S / 3P16S / 3P17S	4P15S / 4P16S / 4P17S
Battery clusters Rated Voltage (V)	768 / 819.2 / 870.4	
Battery clusters voltage range (V)	672~876 / 716.8~934.4 / 761.1~992.8	
Battery clusters Capacity (Ah)	840	1120
Battery clusters Rated Energy (KWh)	643.5 / 686.4 / 729.3	858 / 915.2 / 972.4
Standard Charge/Discharge Current (A)	420/420	560/560
Number of battery clusters	**5**	**6**
Battery Configurations	5P15S / 5P16S / 5P17S	6P15S / 6P16S / 6P17S
Battery clusters Rated Voltage (V)	768 / 819.2 / 870.4	
Battery clusters voltage range (V)	672~876 / 716.8~934.4 / 761.1~992.8	
Battery clusters Capacity (Ah)	1400	1680
Battery clusters Rated Energy (KWh)	1072.5 / 1144 / 1215.5	1287 / 1372.8 / 1458.6
Standard Charge/Discharge Current (A)	700/700	840/840
Number of battery clusters	**7**	**8**
Battery Configurations	7P15S / 7P16S / 7P17S	8P15S / 8P16S / 8P17S
Battery clusters Rated Voltage (V)	768 / 819.2 / 870.4	
Battery clusters voltage range (V)	672~876 / 716.8~934.4 / 761.1~992.8	
Battery clusters Capacity (Ah)	1960	2240
Battery clusters Rated Energy (KWh)	1501.5 / 1601.6 / 1701.7	1716 / 1830.4 / 1944.8
Standard Charge/Discharge Current (A)	980/980	1120/1120

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