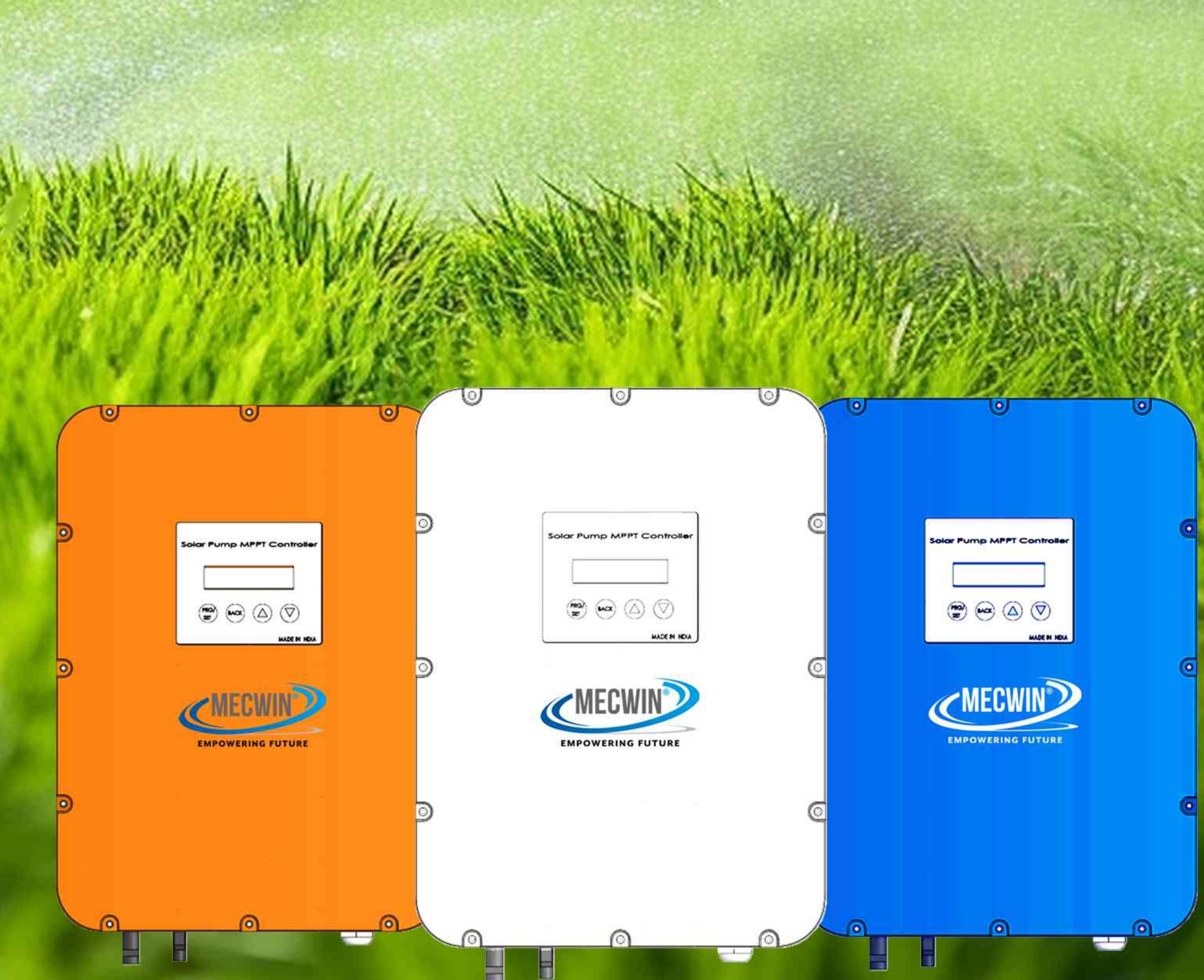




MECWIN SOLAR PUMP



SOLAR PUMP & MOTOR



MECWIN Solar pumps are specially designed with latest technology which lowers the risk of damages and protects it from many unfavorable conditions

MECWIN bore well DC solar submersible pumps comprise of a comprehensive range of pumps that operate on a PV array of 500Wp to 10000Wp.

- Extremely efficient BLDC/PMSM Motors.
- High grade IPM Rotor.
- Rare earth magnets which can stand temperature up to 160°C
- High quality segmented carbon thrust bearing.
- Leak proof motor filled with water for friction less operation.
- Laser welded impellers.
- Strainer for sandy water.
- 100% Stainless steel AISI304 parts.



Solar Pump Controller Specifications :



Model : MECWIN SOLAR PUMP MPPT CONTROLLER

The MECWIN solar pump controller is high efficiency variable frequency drive, the frequency varies from 1 to 120Hz slowly and adjust to pumping load and solar power available.

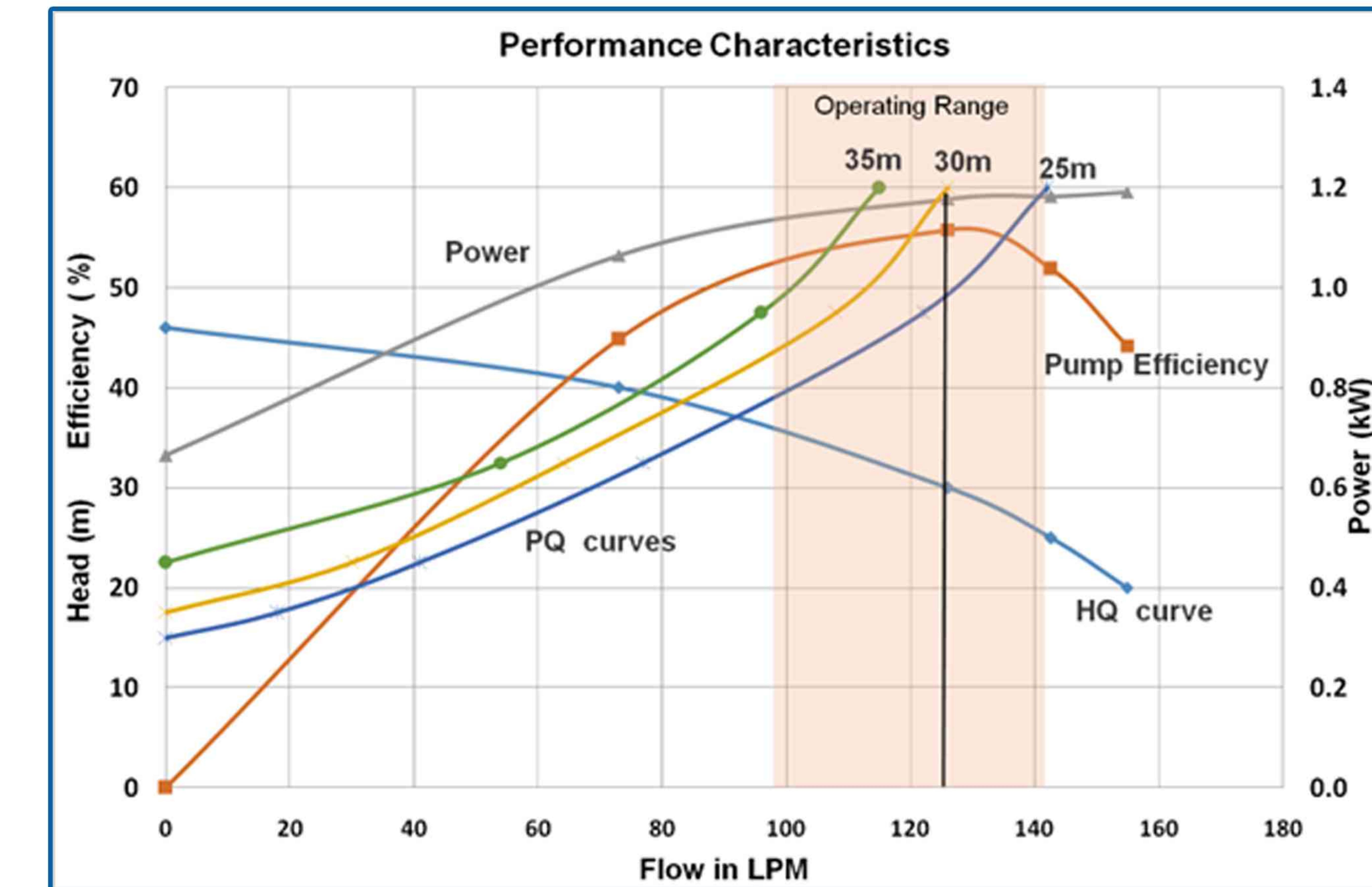
Sl.No	Capacity		Voltage Range (V)	Input Max.Current (A)	Vmp Voltage Range	Max. DC Input Power (W)	Output Voltage	Output Frequency (Hz)
1	1HP	0.75kw	110 - 150	10	90 - 120	1200	90	50/110
2	2HP	1.50kw	160 - 200	12	120 - 150	2200	120	50/110
3	3HP	2.20kw	230 - 300	13	160 - 190	3300	160	50/110
4	5HP	3.75kw	380 - 450	15	232 - 280	5500	230	50/110
5	7.5HP	5.50kw	500 - 700	15	330 - 380	7800	330	50/110
6	10HP	7.5kw	600 - 800	15	380 - 480	9400	380	50/110

Technical Data Sheet :

DC Submersible Solar Pump set

Model : SDW1HPDC30M1200W

Pump set model: SDW1HPDC30M1200W			
Motor Rating	1HP	Motor Voltage (V)	90V
Motor type	DC submersible	Max Current (A)	8.5A
Pump head (m)	30	Rated RPM	3300
Shut off head (m)	45	Frequency (Hz)	110 HZ
Operation Head Range (m)	30-45	Solar DC Voltage (V)	115-150V
Discharge Capacity LPD	45600	Solar DC current (A)	8.5
Motor size	V4	Delivery size (mm)	50



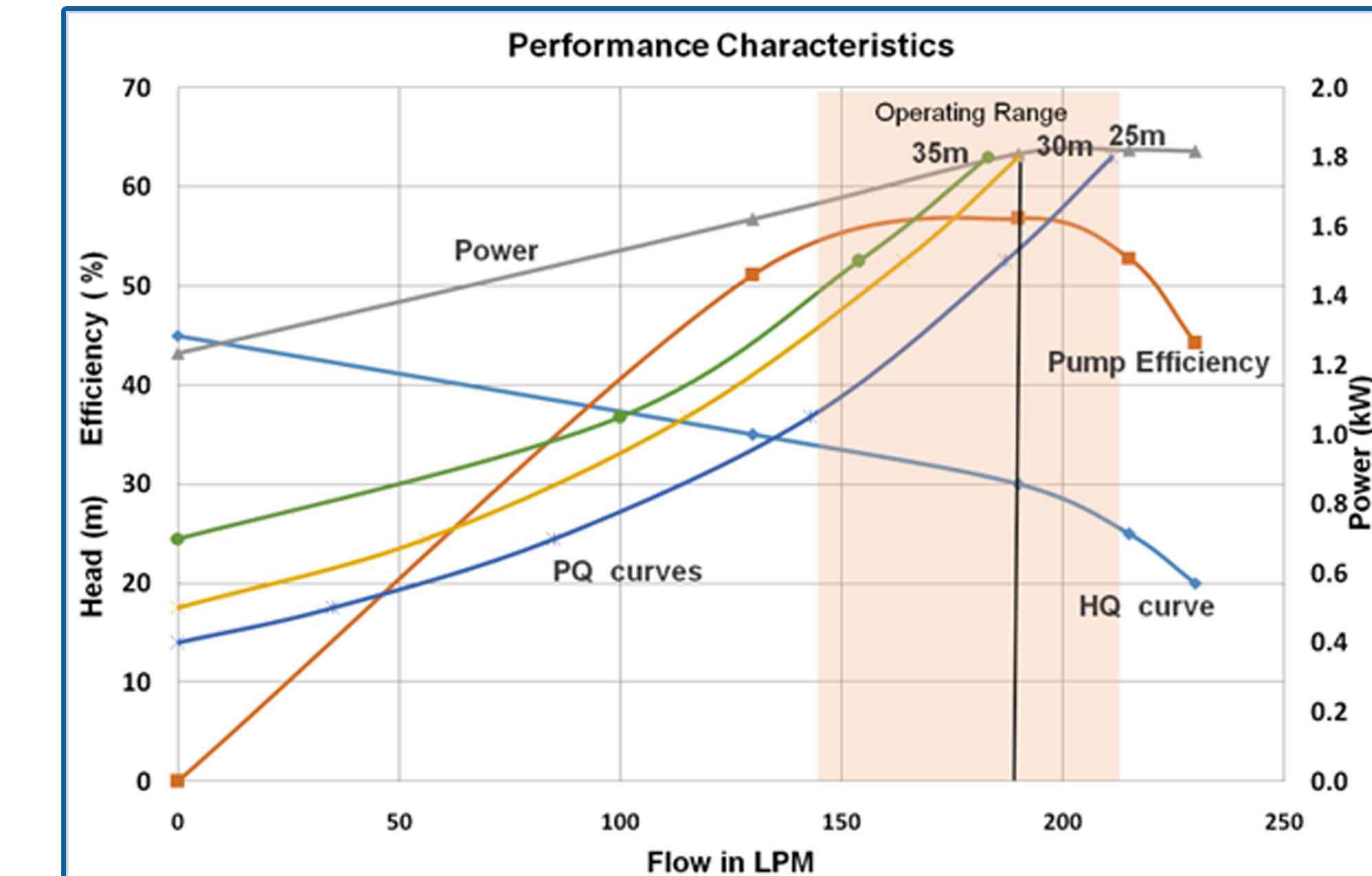
Total Head (m)	Discharge	Solar			Motor		Pump performance				
		Flow (L/m)	Voltage (V)	Current (A)	Power (kW)	Current (A)	Power (kW)	Voltage (V)	Pump Output (kW)	Pump efficiency in %	Overall Eff. (%)
45	0	120	4.83	0.58	4.25	0.51	0.51	78	0	0	0
40	73	120.5	8.04	0.97	6.47	0.78	0.78	78	0.48	44.88	44.8
30	126	121	8.34	1.01	7.02	0.85	0.85	77	0.62	55.81	52.5
25	142.6	122	8.44	1.03	8.03	0.98	0.98	77	0.58	51.86	49.3
20	154.9	122	8.68	1.06	8.27	1.01	1.01	77	0.51	44.21	42.5

Technical Data Sheet :

DC Submersible Solar Pump set

Model : SDW2HPDC30M1800W

Pump set model: SDW2HPDC30M1800W			
Motor Rating	2HP	Motor Voltage (V)	160V
Motor type	DC submersible	Max Current (A)	8.5A
Pump head (m)	30	Rated RPM	3300
Shut off head (m)	45	Frequency (Hz)	110 HZ
Operation Head Range (m)	30-45	Solar DC Voltage (V)	150-450V
Discharge Capacity LPD	68400	Solar DC current (A)	8.5A
Motor size	V4	Delivery size (mm)	50



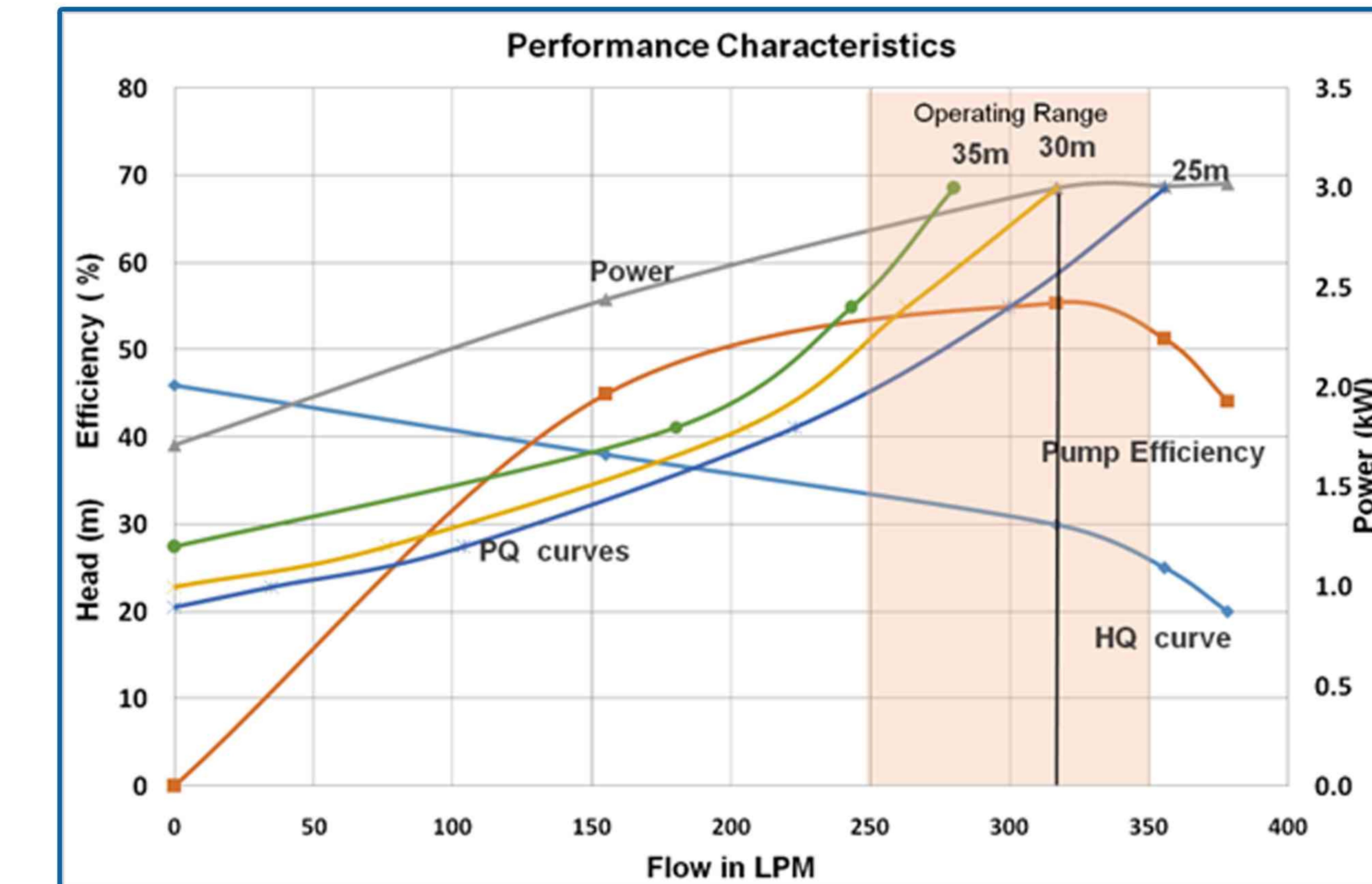
Total Head (m)	Discharge	Solar			Motor			Pump performance		
		Flow (L/m)	Voltage (V)	Current (A)	Power (kW)	Current (A)	Power (kW)	Voltage (V)	Pump Output (kW)	Pump efficiency in %
45	0	220.5	5.66	1.25	5.39	1.19	156	0	0	0
35	130	222.7	7.4	1.62	6.7	1.49	158	0.74	51.1	45.9
30	190	222.1	8.14	1.81	7.74	1.72	157	0.93	56.79	51.5
25	215	222.1	8.19	1.82	7.96	1.77	157	0.88	52.81	48.3
20	230	222.1	8.23	1.83	8.05	1.79	157	0.75	44.21	41.4

Technical Data Sheet :

DC Submersible Solar Pump set

Model : SDW03HPDC30M3000W

Pump set model: SDW03HP30MDC3000W			
Motor Rating	3HP	Motor Voltage (V)	160V
Motor type	DC submersible	Max Current (A)	13A
Pump head (m)	30	Rated RPM	3300
Shut off head (m)	45	Frequency (Hz)	110 HZ
Operation Head Range (m)	30-45	Solar DC Voltage (V)	230V-400V
Discharge Capacity LPD	114000	Solar DC current (A)	13A
Motor size	V4	Delivery size (mm)	65



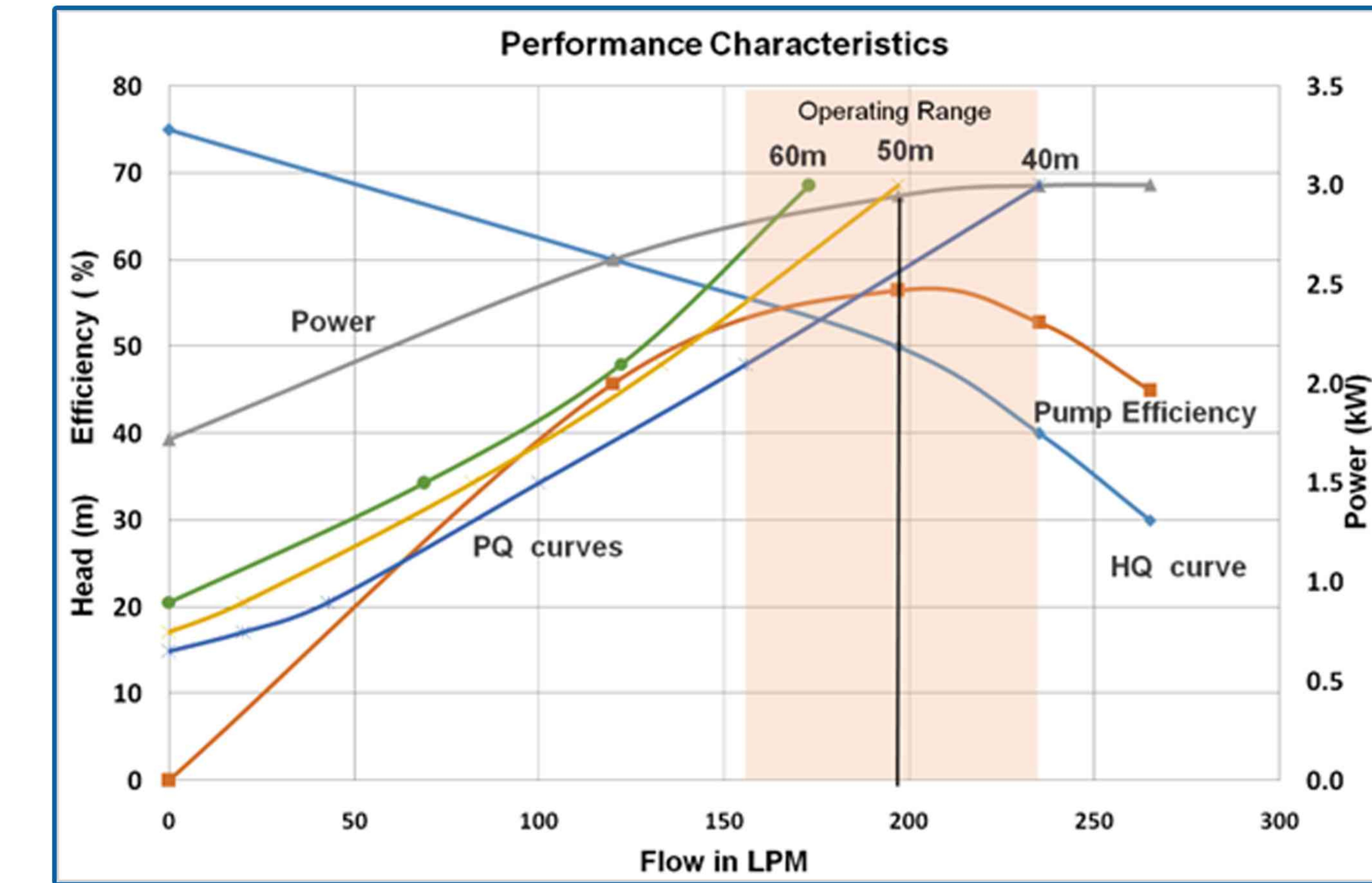
Total Head (m)	Discharge	Solar			Motor			Pump performance		
		Flow (L/m)	Voltage (V)	Current (A)	Power (kW)	Current (A)	Power (kW)	Voltage (V)	Pump Output (kW)	Pump efficiency in %
45	0	230.5	6.8	1.58	4.43	1.03	160	0	0	0
38	155	231	9.56	2.21	9.2	2.14	159	0.96	44.92	42.9
30	317	231.8	9.96	2.38	9.8	2.28	159	1.55	55.42	53.5
25	356	232	10.38	2.41	9.93	2.31	158	1.45	51.27	49.5
20	378	232.5	10.53	2.45	10.1	2.35	158	1.24	44.16	42.6

Technical Data Sheet :

DC Submersible Solar Pump set

Model : SDW03HPDC50M3000W

Pump set model: SDW3HP50MDC3000Wp			
Motor Rating	3HP	Motor Voltage (V)	160V
Motor type	DC submersible	Max Current (A)	13A
Pump head (m)	50	Rated RPM	3300
Shut off head (m)	70	Frequency (Hz)	110 HZ
Operation Head Range (m)	50-70	Solar DC Voltage (V)	230V-400V
Discharge Capacity LPD	69000	Solar DC current (A)	13A
Motor size	V4	Delivery size (mm)	50



Total Head (m)	Discharge	Solar			Motor			Pump performance		
		Flow (L/m)	Voltage (V)	Current (A)	Power (kW)	Current (A)	Power (kW)	Voltage (V)	Pump Output (kW)	Pump efficiency in %
75	0	231.6	5.09	1.18	4.9	1.13	160	0	0	0
60	120	231.3	9.94	2.3	9.42	2.18	159	1.18	45.78	44.8
50	197	232	10.47	2.43	10.08	2.34	158	1.61	56.47	54.6
40	235	232.5	10.53	2.45	10.19	2.37	158	1.54	52.78	51.2
30	265	233	10.81	2.52	10.51	2.45	158	1.3	44.95	43.3

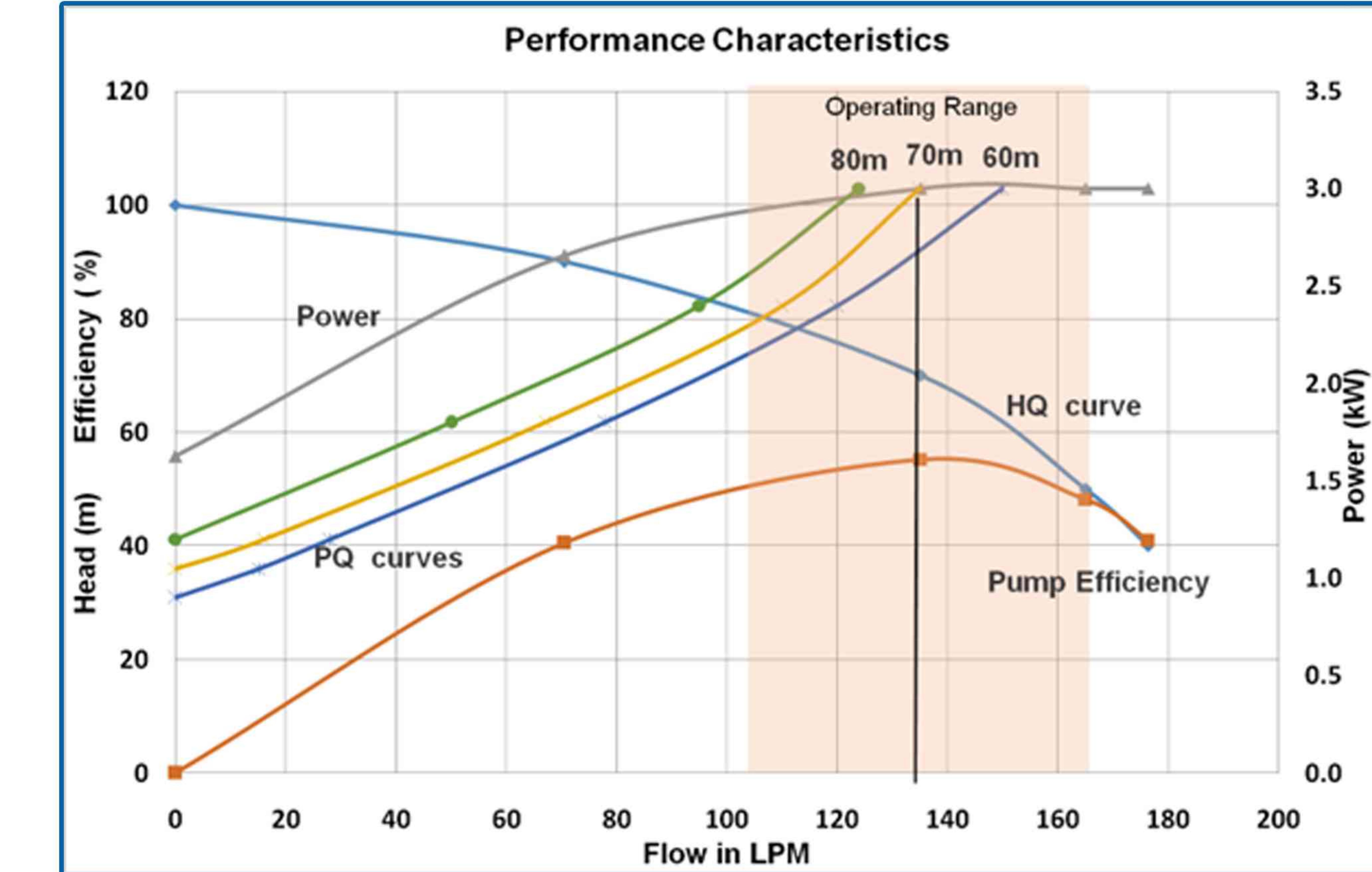
Technical Data Sheet :

DC Submersible Solar Pump set

Model : SDW03HPDC70M3000Wp



Pump set model: SDW03HP70MDC3000Wp			
Motor Rating	3HP	Motor Voltage (V)	160V
Motor type	DC submersible	Max Current (A)	13A
Pump head (m)	70	Rated RPM	3300
Shut off head (m)	100	Frequency (Hz)	110 HZ
Operation Head Range (m)	70-100	Solar DC Voltage (V)	230V-400V
Discharge Capacity LPD	45000	Solar DC current (A)	13A
Motor size	V4	Delivery size (mm)	50



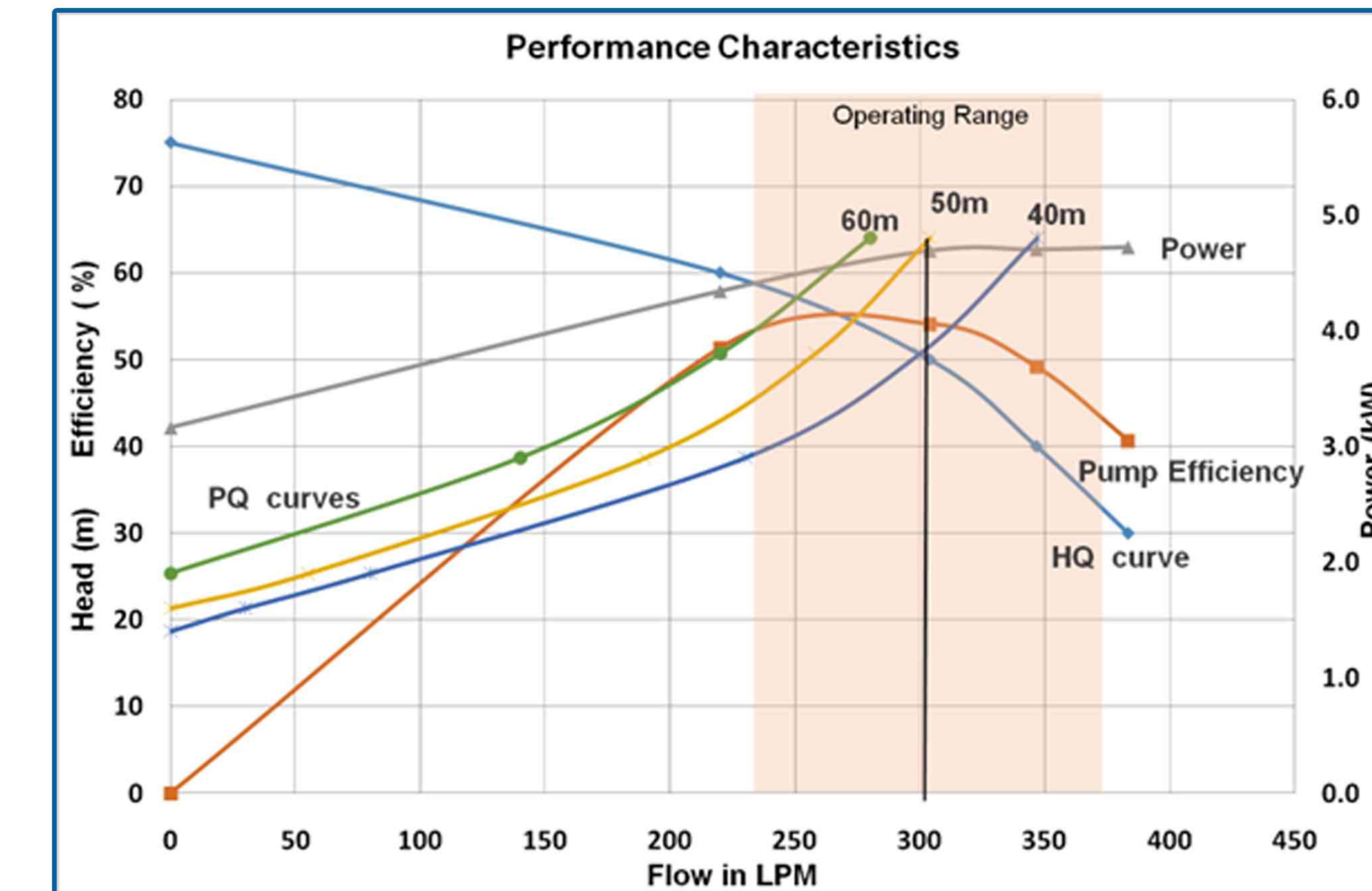
Total Head (m)	Discharge	Solar			Motor			Pump performance		
		Flow (L/m)	Voltage (V)	Current (A)	Power (kW)	Current (A)	Power (kW)	Voltage (V)	Pump Output (kW)	Pump efficiency in %
100	0	231	6.8	1.57	6.6	1.53	161	0	0	0
90	71	231.6	9.56	2.21	9.45	2.19	160	1.04	40.51	39
70	135	232	10.87	2.52	9.99	2.32	161	1.55	55.2	52.6
50	165	232.5	11.45	2.65	11.22	2.61	159	1.35	48.18	45.8
40	176	233	12.31	2.86	11.45	2.67	159	1.15	41.03	39.1

Technical Data Sheet :

AC Submersible Solar Pump set

Model : SDW05HPAC50M4800Wp

Pump set model: : SDW5HP50MAC4800Wp			
Motor Rating	5HP	Motor Voltage (V)	230V
Motor type	AC submersible	Max Current (A)	13A
Pump head (m)	50	Rated RPM	3300
Shut off head (m)	75	Frequency (Hz)	110 HZ
Operation Head Range (m)	50-75	Solar DC Voltage (V)	380V-500V
Discharge Capacity LPD	110400	Solar DC current (A)	13A
Motor size	V4	Delivery size (mm)	65



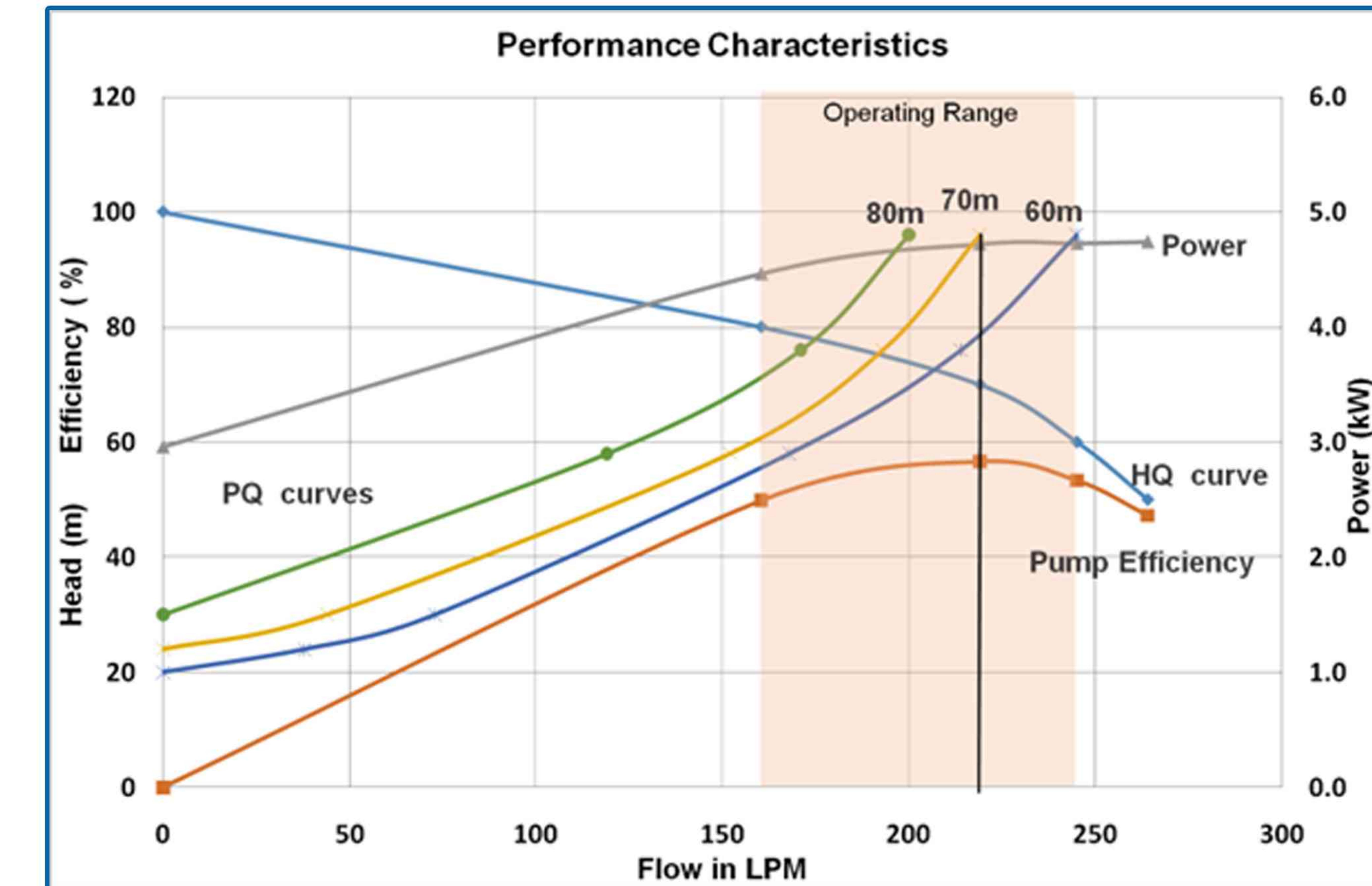
Total Head (m)	Discharge	Solar			Motor			Pump performance		
		Flow (L/m)	Voltage (V)	Current (A)	Power (kW)	Current (A)	Power (kW)	Voltage (V)	Pump Output (kW)	Pump efficiency in %
75	0	380	8.61	3.16	5.81	2.21	234	0	0	0
60	220	385	11.27	4.34	10.9	4.2	234	2.16	51.35	49.7
50	304	386	12.15	4.69	11.89	4.59	239	2.48	54.11	53
40	347	387	12.14	4.7	11.91	4.61	230	2.27	49.15	48.2
30	383	390	12.1	4.72	11.84	4.62	240	1.88	40.67	39.8

Technical Data Sheet :

DC Submersible Solar Pump set

Model : SDW05HPDC70M4800Wp

Pump set model: : SDW5HP70MAC4800Wp			
Motor Rating	5HP	Motor Voltage (V)	230V
Motor type	DC submersible	Max Current (A)	13A
Pump head (m)	70	Rated RPM	3300
Shut off head (m)	100	Frequency (Hz)	110 HZ
Operation Head Range (m)	70-100	Solar DC Voltage (V)	380V-600V
Discharge Capacity LPD	72000	Solar DC current (A)	13A
Motor size	V4	Delivery size (mm)	50



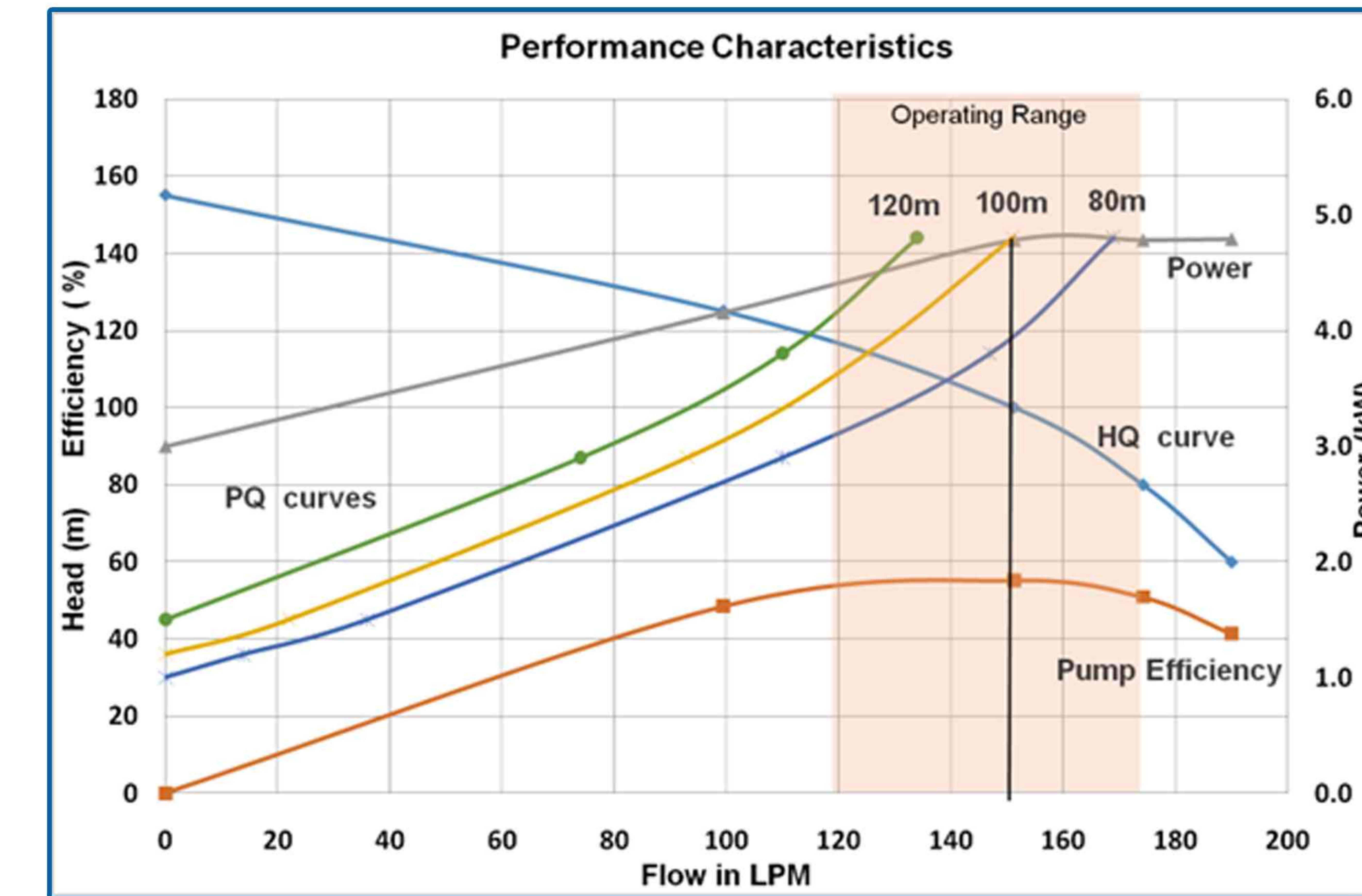
Total Head (m)	Discharge Flow (L/m)	Solar			Motor			Pump performance		
		Voltage (V)	Current (A)	Power (kW)	Current (A)	Power (kW)	Voltage (V)	Pump Output (kW)	Pump efficiency in %	Overall Eff. (%)
100	0	380	7.78	2.96	7.17	2.8	231	0	0	0
80	160	385	11.73	4.46	10.76	4.2	230	2.1	49.9	47
70	219	390	12.1	4.72	11.33	4.42	230	2.5	56.7	53.1
60	245	400	11.96	4.82	11.25	4.5	230	2.4	53.4	50.8
50	264	403	12.01	4.84	11.31	4.56	230	2.16	47.3	45.5

Technical Data Sheet :

DC Submersible Solar Pump set

Model : SDW05HPDC100M4800Wp

Pump set model: : SDW5HP100MAC4800Wp			
Motor Rating	5HP	Motor Voltage (V)	230V
Motor type	DC submersible	Max Current (A)	13A
Pump head (m)	100	Rated RPM	3300
Shut off head (m)	155	Frequency (Hz)	110
Operation Head Range (m)	100-150	Solar DC Voltage (V)	380V-600V
Discharge Capacity LPD	50400	Solar DC current (A)	13A
Motor size	V4	Delivery size (mm)	50



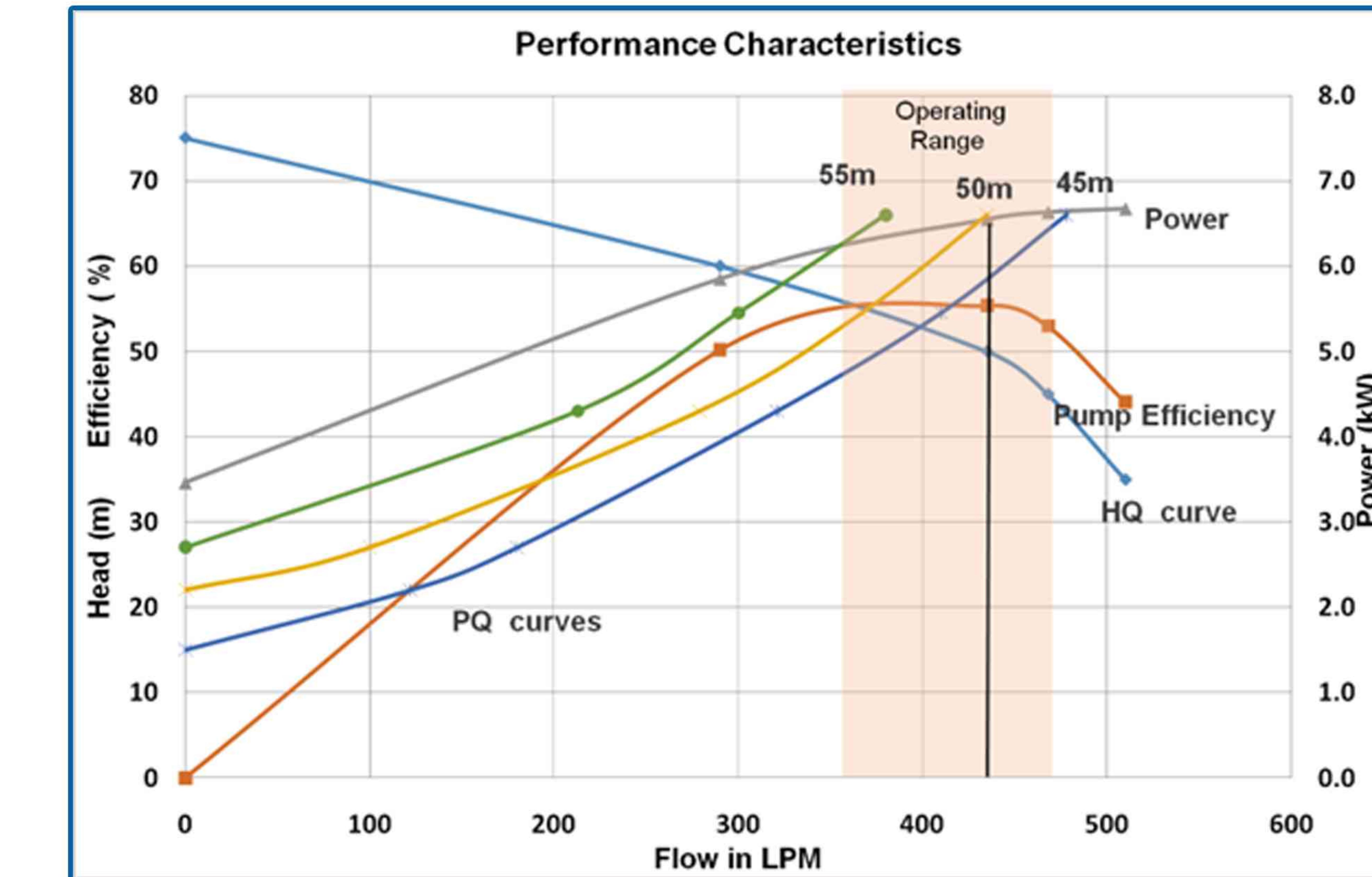
Total Head (m)	Discharge Flow (L/m)	Solar			Motor			Pump performance		
		Voltage (V)	Current (A)	Power (kW)	Current (A)	Power (kW)	Voltage (V)	Pump Output (kW)	Pump efficiency in %	Overall Eff. (%)
155	0	380	7.89	3	8.09	3.14	240	0	0	0
125	99	385	10.77	4.15	10.61	4.12	240	2.03	48.47	48.9
100	151	387	12.38	4.78	11.49	4.46	240	2.47	55.21	51.7
80	174	388	12.5	4.85	11.57	4.49	240	2.28	50.9	47.7
60	190	390	12.51	4.88	11.53	4.5	240	1.86	41.41	38.9

Technical Data Sheet :

DC Submersible Solar Pump set

Model : SDW7.5HPDC50M6750Wp

Pump set model: SDW7.5HPDC50M6750Wp			
Motor Rating	7.5HP	Motor Voltage (V)	330V
Motor type	DC submersible	Max Current (A)	15A
Pump head (m)	50	Rated RPM	3300
Shut off head (m)	75	Frequency (Hz)	110 HZ
Operation Head Range (m)	50-75	Solar DC Voltage (V)	500V-800V
Discharge Capacity LPD	155250	Solar DC current (A)	15A
Motor size	V4	Delivery size (mm)	65



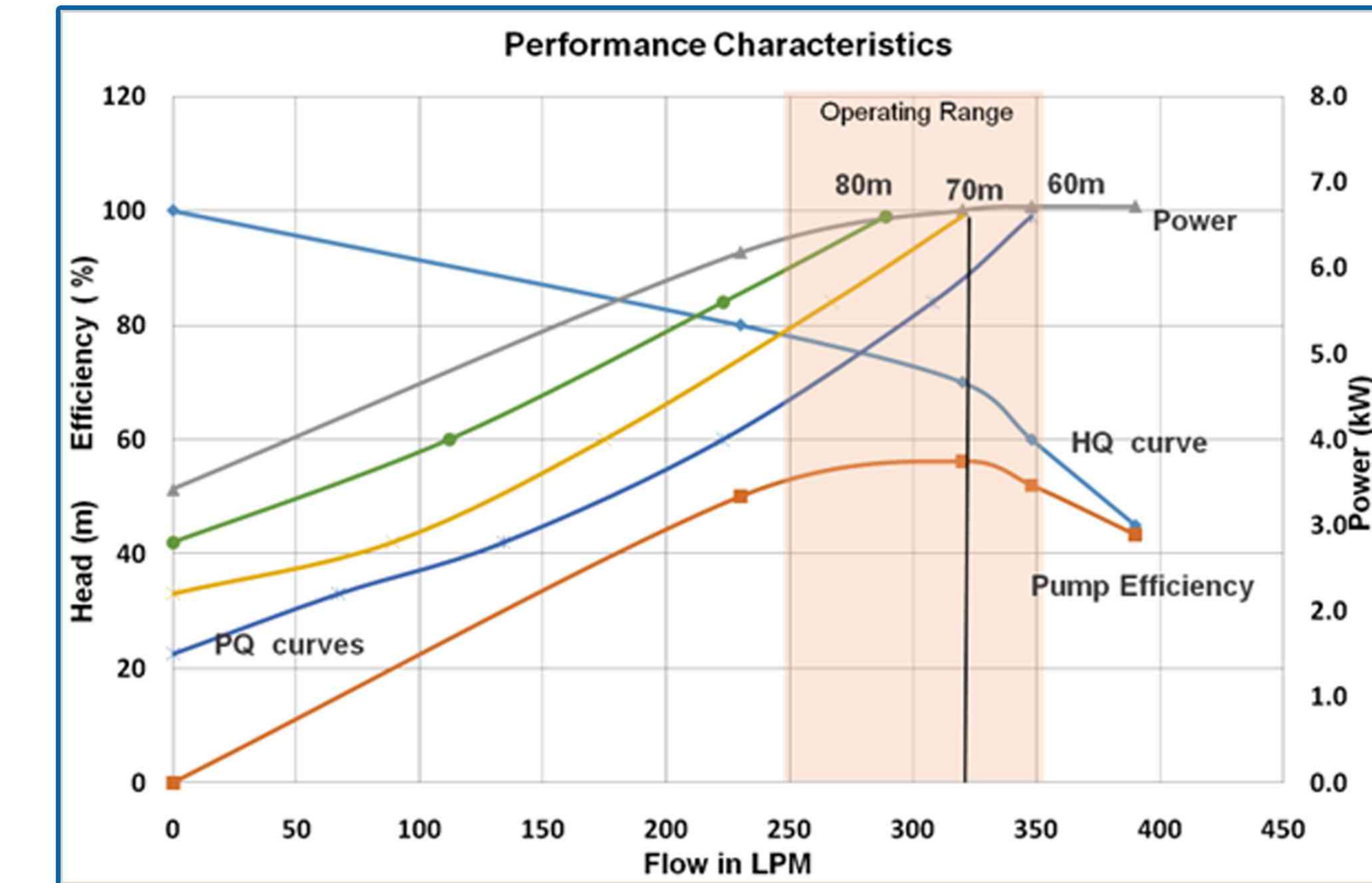
Total Head (m)	Discharge	Solar			Motor			Pump performance		
		Flow (L/m)	Voltage (V)	Current (A)	Power (kW)	Current (A)	Power (kW)	Voltage (V)	Pump Output (kW)	Pump efficiency in %
75	0	500	6.92	3.46	5.58	2.79	321	0	0	0
60	290	502	11.65	5.85	11.29	5.67	320	2.84	50.14	48.6
50	435	505	12.97	6.55	12.71	6.42	319	3.55	55.37	54.3
45	468	506	13.1	6.63	12.84	6.5	319	3.44	52.94	51.9
35	510	508	12.99	6.67	13.03	6.62	319	2.92	44.06	43.7

Technical Data Sheet :

DC Submersible Solar Pump set

Model : SDW7.5HPDC70M6750Wp

Pump set model: SDW7.5HPDC70M6750Wp			
Motor Rating	7.5HP	Motor Voltage (V)	330V
Motor type	DC submersible	Max Current (A)	15A
Pump head (m)	70	Rated RPM	3300
Shut off head (m)	100	Frequency (Hz)	110 HZ
Operation Head Range (m)	70-100	Solar DC Voltage (V)	500V-800V
Discharge Capacity LPD	101250	Solar DC current (A)	15A
Motor size	V4	Delivery size (mm)	65



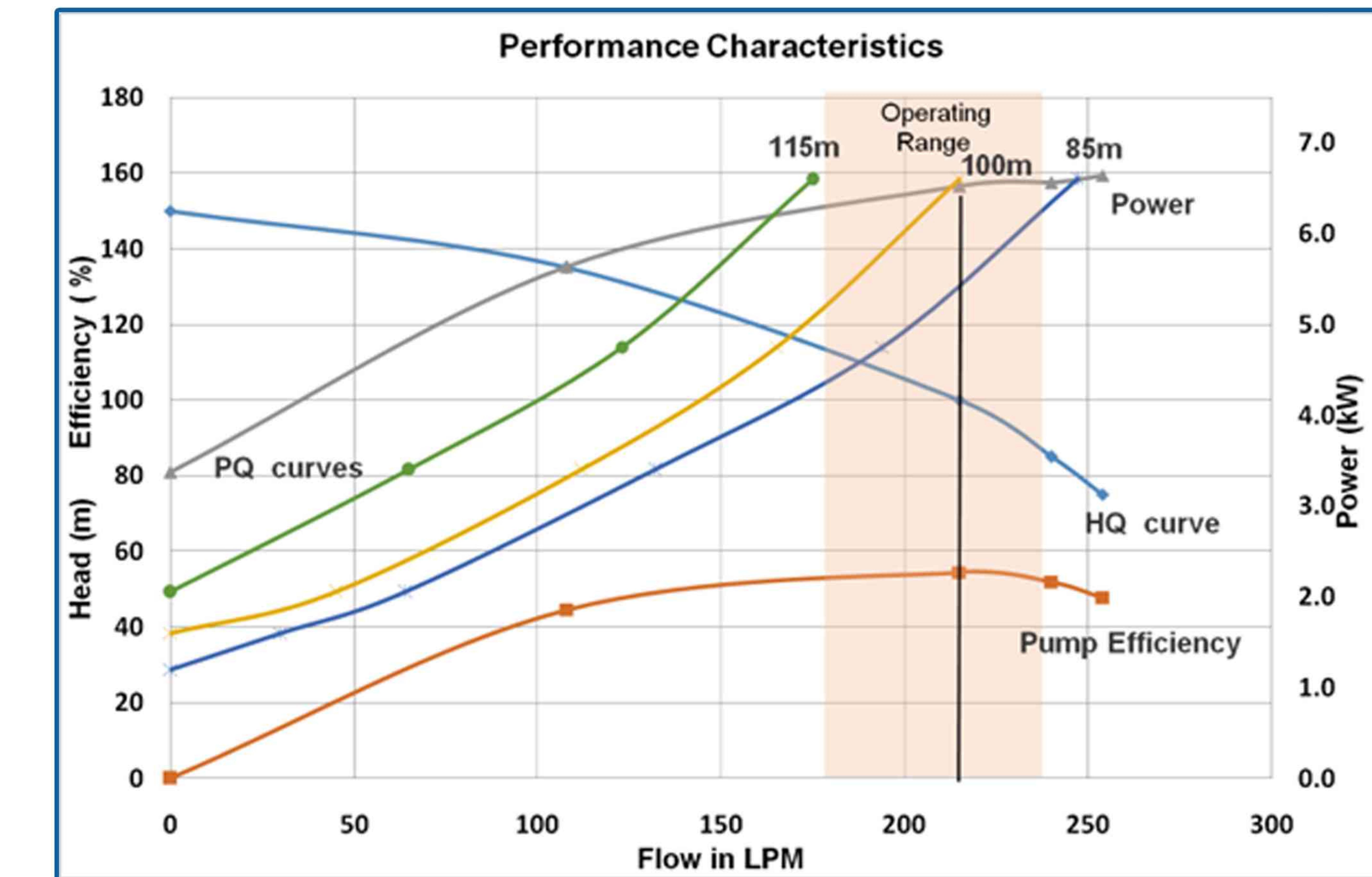
Total Head (m)	Discharge	Solar			Motor			Pump performance		
		Flow (L/m)	Voltage (V)	Current (A)	Power (kW)	Current (A)	Power (kW)	Voltage (V)	Pump Output (kW)	Pump efficiency in %
100	0	500	6.92	3.46	5.58	2.79	321	0	0	0
80	230	502	11.65	5.85	11.29	5.67	320	3.01	50.03	48.6
70	320	505	12.97	6.55	12.71	6.42	319	3.66	56.14	54.8
60	348	506	13.1	6.63	12.84	6.5	319	3.41	51.93	50.8
45	390	508	12.99	6.67	13.03	6.62	319	2.87	43.32	42.7

Technical Data Sheet :

DC Submersible Solar Pump set

Model : SDW7.5HPDC100M6750Wp

Pump set model: SDW7.5HPDC100M6750Wp			
Motor Rating	7.5HP	Motor Voltage (V)	330V
Motor type	DC submersible	Max Current (A)	15A
Pump head (m)	100	Rated RPM	3300
Shut off head (m)	150	Frequency (Hz)	110 HZ
Operation Head Range (m)	100-150	Solar DC Voltage (V)	500V-800V
Discharge Capacity LPD	70850	Solar DC current (A)	15A
Motor size	V4	Delivery size (mm)	50



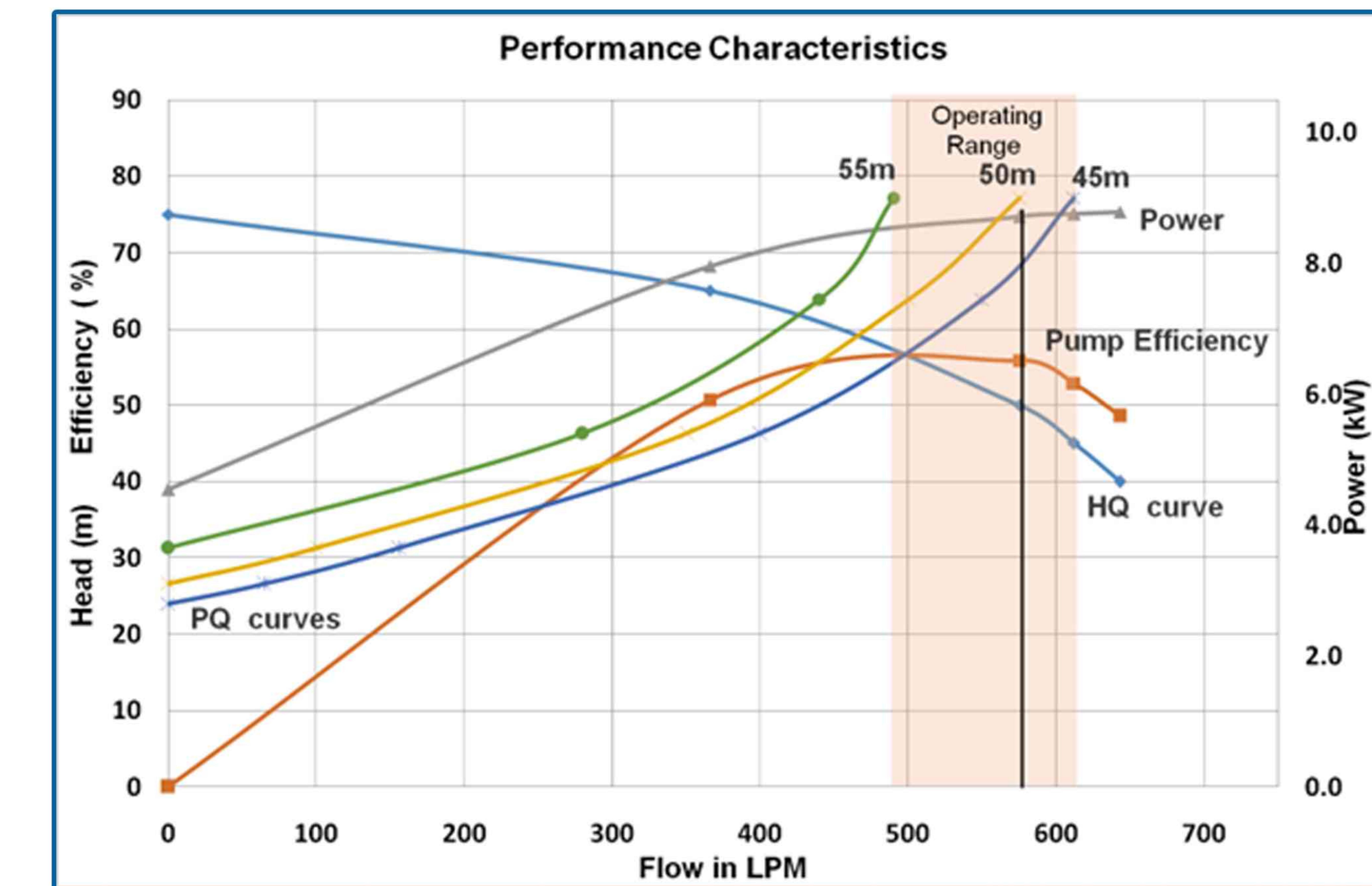
Total Head (m)	Discharge	Solar			Motor			Pump performance		
		Flow (L/m)	Voltage (V)	Current (A)	Power (kW)	Current (A)	Power (kW)	Voltage (V)	Pump Output (kW)	Pump efficiency in %
150	0	501	6.72	3.37	5.68	2.85	330	0	0	0
135	108	500	11.26	5.63	10.68	5.34	330	2.38	44.6	42.3
100	215	502	12.98	6.52	12.84	6.45	330	3.51	54.47	53.9
85	240	499	13.14	6.56	12.88	6.43	330	3.33	51.87	50.8
75	254	500	13.28	6.64	13.02	6.51	330	3.11	47.81	46.9

Technical Data Sheet :

DC Submersible Solar Pump set

Model : SDW10HPDC50M9000Wp

Pump set model: SDW010HP50MDC9000Wp			
Motor Rating	10HP	Motor Voltage (V)	480V
Motor type	DC submersible	Max Current (A)	15A
Pump head (m)	50	Rated RPM	3300
Shut off head (m)	70	Frequency (Hz)	110 HZ
Operation Head Range (m)	50-70	Solar DC Voltage (V)	550-800V
Discharge Capacity LPD	207000	Solar DC current (A)	15A
Motor size	V4	Delivery size (mm)	75



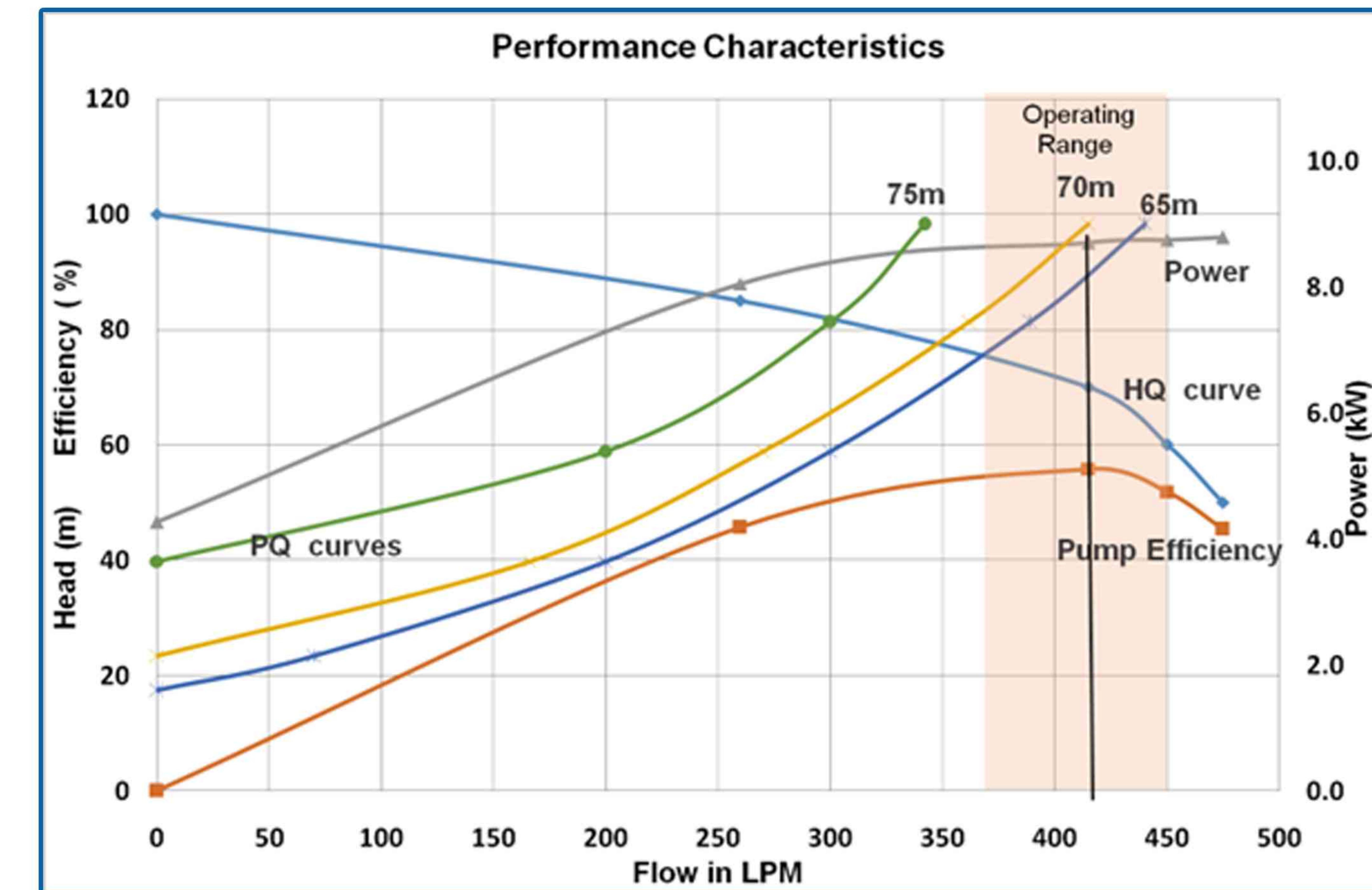
Total Head (m)	Discharge Flow (L/m)	Solar			Motor			Pump performance		
		Voltage (V)	Current (A)	Power (kW)	Current (A)	Power (kW)	Voltage (V)	Pump Output (kW)	Pump efficiency in %	Overall Eff. (%)
75	0	560	8.05	4.51	7.5	4.2	380	0	0	0
65	366	568	13.9	7.96	13.5	7.67	380	3.89	50.68	48.8
50	575	572	15.22	8.71	14.7	8.41	380	4.7	55.86	53.9
45	612	580	15.08	8.75	14.67	8.51	380	4.5	52.85	51.4
40	643	594	15	8.91	14.56	8.65	380	4.2	48.6	47.8

Technical Data Sheet :

DC Submersible Solar Pump set

Model : SDW10HPDC70M9000Wp

Pump set model: SDW010HP70MDC9000Wp			
Motor Rating	10HP	Motor Voltage (V)	480V
Motor type	DC submersible	Max Current (A)	15A
Pump head (m)	70	Rated RPM	3300
Shut off head (m)	100	Frequency (Hz)	110 HZ
Operation Head Range (m)	70-100	Solar DC Voltage (V)	560-800V
Discharge Capacity LPD	135000	Solar DC current (A)	15A
Motor size	V4	Delivery size (mm)	65



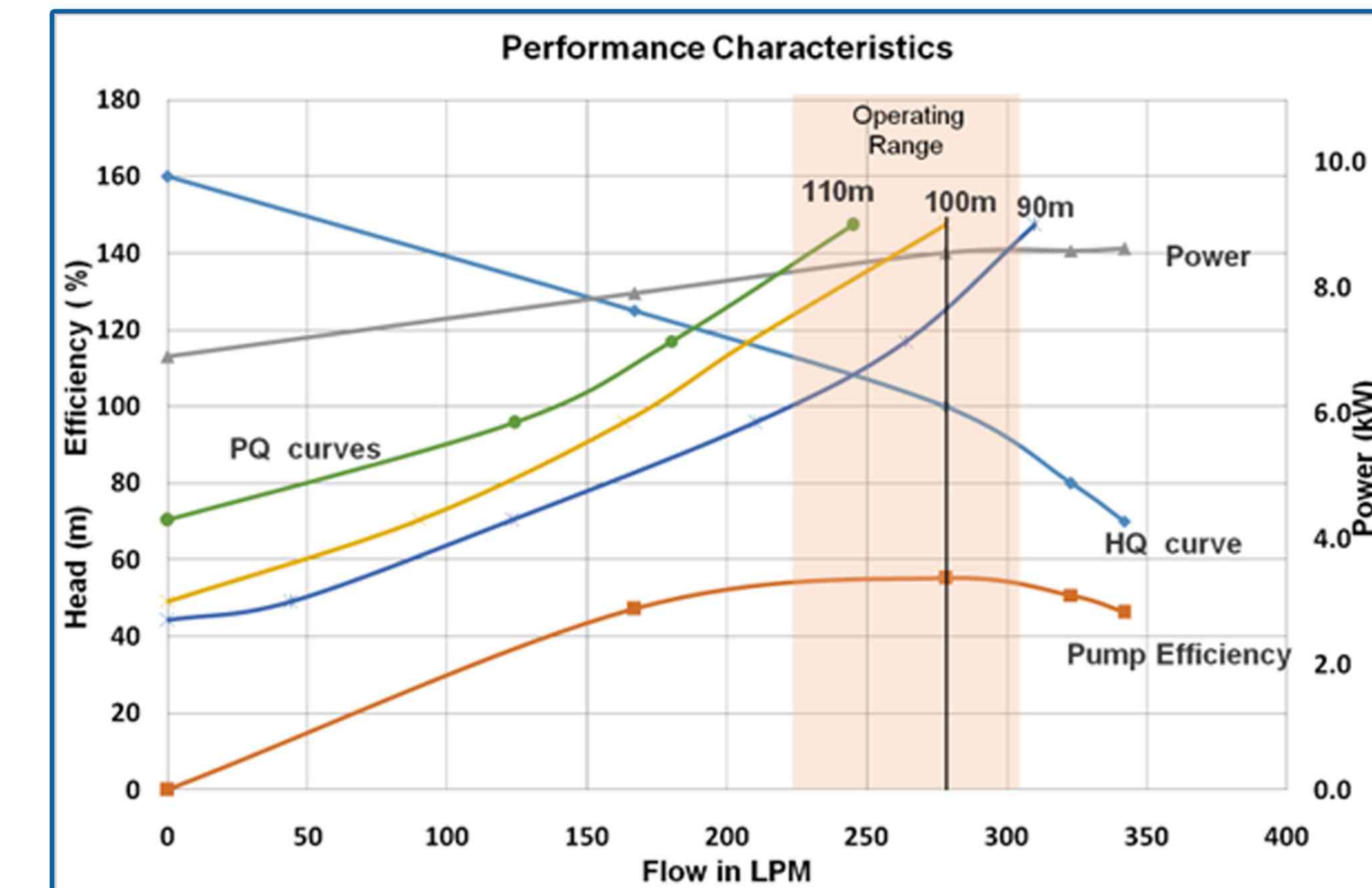
Total Head (m)	Discharge	Solar			Motor			Pump performance		
		Flow (L/m)	Voltage (V)	Current (A)	Power (kW)	Current (A)	Power (kW)	Voltage (V)	Pump Output (kW)	Pump efficiency in %
100	0	560	8.05	4.51	7.5	4.2	380	0	0	0
85	260	568	13.9	7.96	13.5	7.67	380	3.61	45.65	44.8
70	415	572	15.22	8.71	14.7	8.41	380	4.75	55.84	54.5
60	450	580	15.08	8.75	14.67	8.51	380	4.41	51.84	50.4
50	475	594	15	8.91	14.56	8.65	380	3.88	45.39	44.1

Technical Data Sheet :

DC Submersible Solar Pump set

Model : SDW10HPDC100M9000Wp

Pump set model: SDW010HP100MDC9000Wp			
Motor Rating	10HP	Motor Voltage (V)	480V
Motor type	DC submersible	Max Current (A)	15A
Pump head (m)	100	Rated RPM	3300
Shut off head (m)	150	Frequency (Hz)	110 HZ
Operation Head Range (m)	100-150	Solar DC Voltage (V)	560-800V
Discharge Capacity LPD	94500	Solar DC current (A)	15A
Motor size	V4	Delivery size (mm)	50



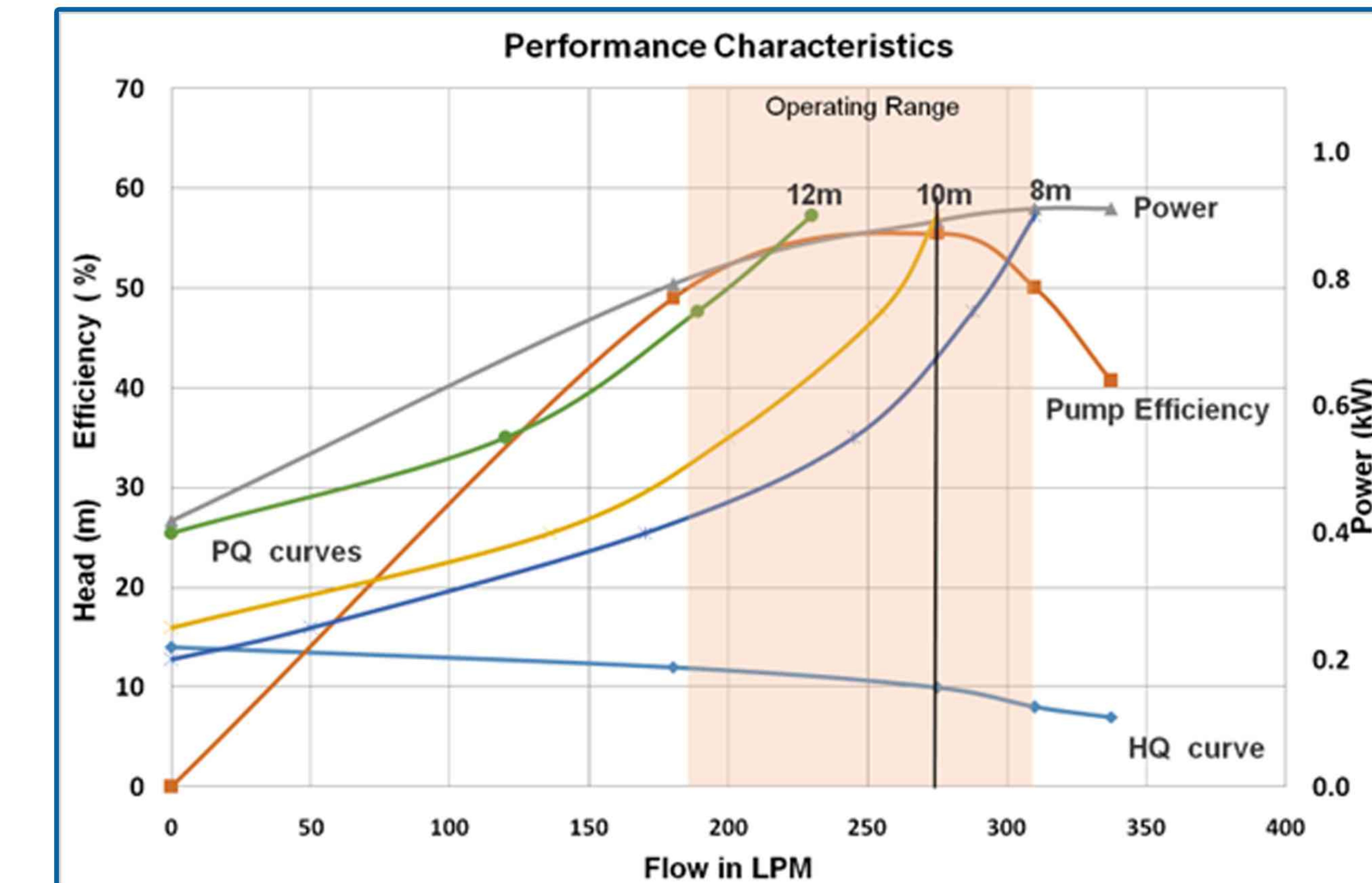
Total Head (m)	Discharge	Solar			Motor			Pump performance		
		Flow (L/m)	Voltage (V)	Current (A)	Power (kW)	Current (A)	Power (kW)	Voltage (V)	Pump Output (kW)	Pump efficiency in %
160	0	560	10.35	5.8	9.14	5.12	380	0	0	0
125	167	563	14.04	7.91	12.82	7.22	380	3.41	47.23	43.1
100	278	568	15.05	8.55	14.47	8.22	380	4.54	55.24	53.1
80	323	569	15.09	8.59	14.63	8.33	380	4.22	50.72	49.1
70	342	573	15.14	8.68	14.74	8.45	380	3.91	46.27	45.3

Technical Data Sheet :

DC Surface Solar Pump set

Model : SSW1HPDC10M900Wp

Pump set model: SSW1HPDC10M900Wp			
Motor Rating	1HP	Motor Voltage (V)	90V
Motor type	DC surface	Max Current (A)	8.5A
Pump head (m)	10	Rated RPM	3300
Shut off head (m)	15	Frequency (Hz)	110 HZ
Operation Head Range (m)	Oct-15	Solar DC Voltage (V)	120-150
Discharge Capacity LPD	99000	Solar DC current (A)	8.5A
Motor size	50	Delivery size (mm)	50



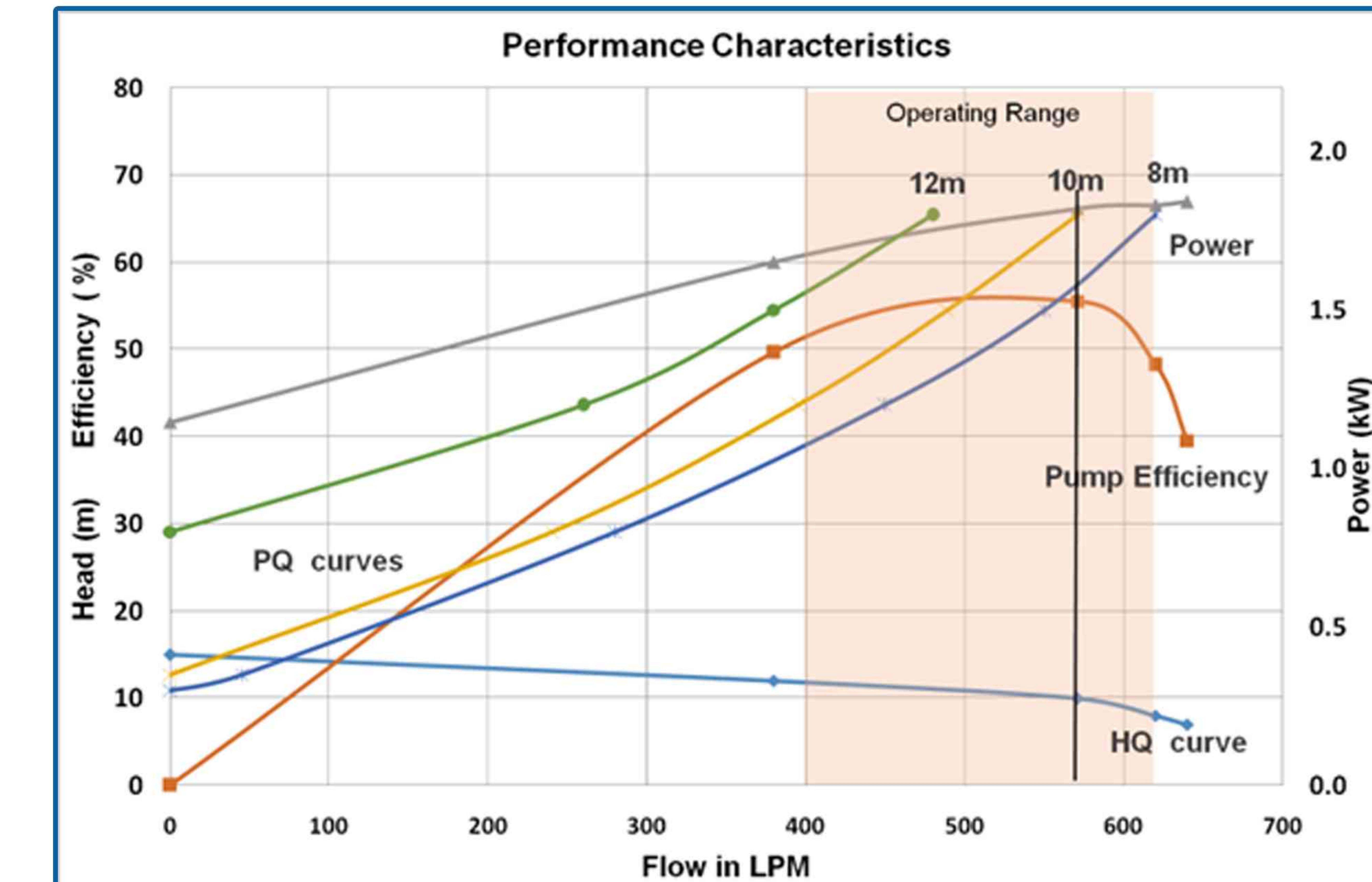
Total Head (m)	Discharge	Solar			Motor			Pump performance			
		Flow (L/m)	Voltage (V)	Current (A)	Power (kW)	Current (A)	Power (kW)	Voltage (V)	Pump Output (kW)	Pump efficiency in %	Overall Eff. (%)
14	0	110	3.81	0.42	4	0.44	71	0	0	0	0
12	180	110	7.18	0.79	6.81	0.75	70.1	0.35	49	44.6	
10	275	110	8.09	0.89	7.63	0.84	70	0.45	55.4	50.4	
8	310	110	8.27	0.91	7.9	0.87	70	0.41	50	44.5	
7	337.3	110	8.63	0.95	8.45	0.93	70	0.39	40.7	42.4	

Technical Data Sheet :

DC Surface Solar Pump set

Model : SSW2HPDC10M1800Wp

Pump set model: SSW2HPDC10M1800Wp			
Motor Rating	2HP	Motor Voltage (V)	160V
Motor type	DC Surface	Max Current (A)	8.5A
Pump head (m)	10	Rated RPM	3300
Shut off head (m)	15	Frequency (Hz)	110 HZ
Operation Head Range (m)	Oct-15	Solar DC Voltage (V)	150-400
Discharge Capacity LPD	198000	Solar DC current (A)	8.5A
Motor size	65	Delivery size (mm)	65



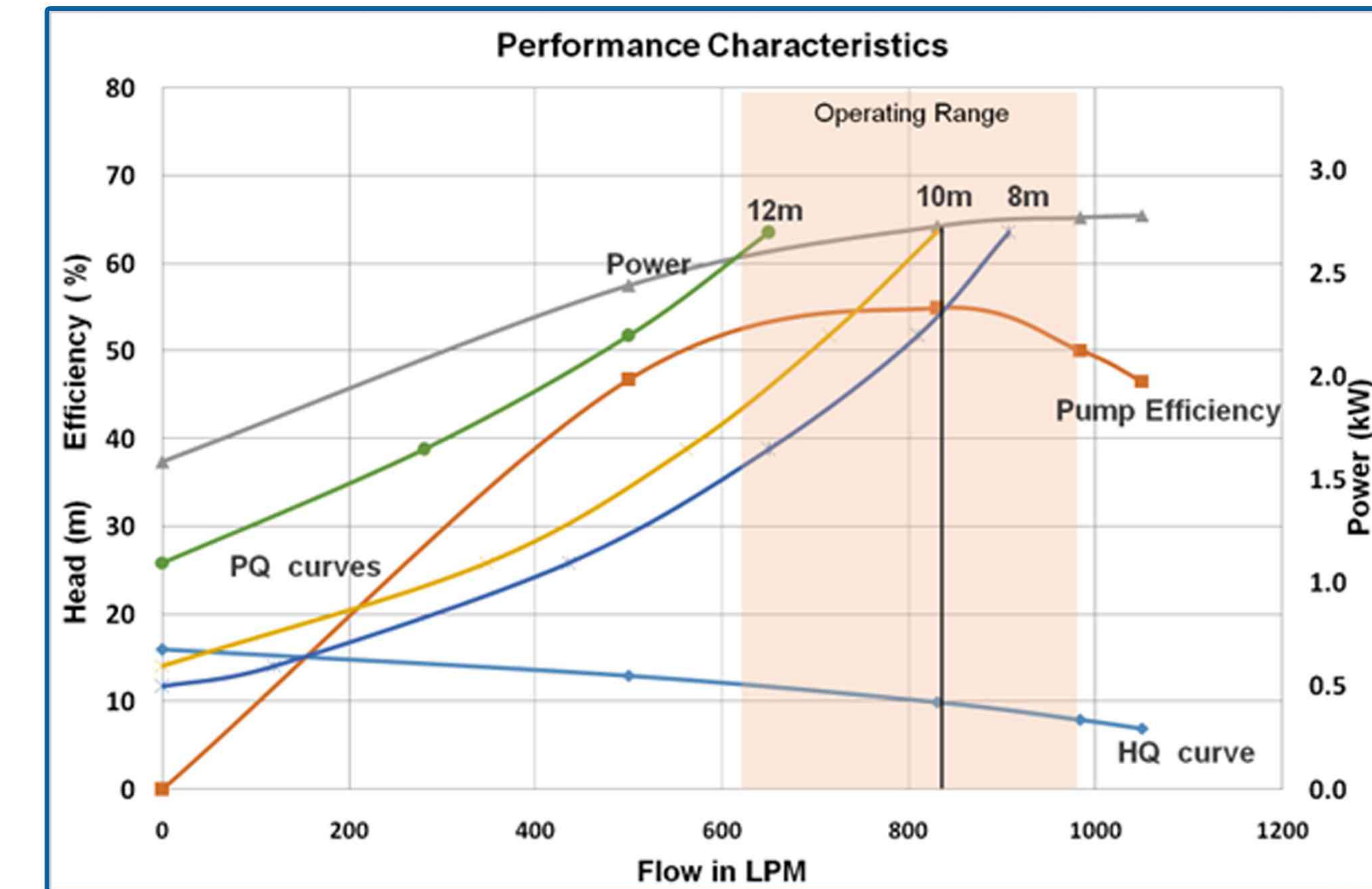
Total Head (m)	Discharge	Solar			Motor		Pump performance				
		Flow (L/m)	Voltage (V)	Current (A)	Power (kW)	Current (A)	Power (kW)	Voltage (V)	Pump Output (kW)	Pump efficiency in %	Overall Eff. (%)
15	0	220	5.22	1.15	4.68	1.03	1.03	130	0	0	0
12	380	220	7.5	1.65	6.81	1.5	1.5	130	0.75	49.67	45.2
10	571	221	8.27	1.82	7.63	1.68	1.68	129	0.93	55.54	51.3
8	620	222	8.5	1.87	7.68	1.69	1.69	129	0.81	48.24	44.3
7	640	222	8.59	1.89	8.4	1.85	1.85	129	0.73	39.57	39.8

Technical Data Sheet :

DC Surface Solar Pump set

Model : SSW3HPDC10M3000Wp

Pump set model: SSW3HPDC10M3000Wp			
Motor Rating	3HP	Motor Voltage (V)	160V
Motor type	DC surface	Max Current (A)	13A
Pump head (m)	10	Rated RPM	3300
Shut off head (m)	15	Frequency (Hz)	110 HZ
Operation Head Range (m)	Oct-15	Solar DC Voltage (V)	230V-400V
Discharge Capacity LPD	297000	Solar DC current (A)	13A
Motor size	75	Delivery size (mm)	75



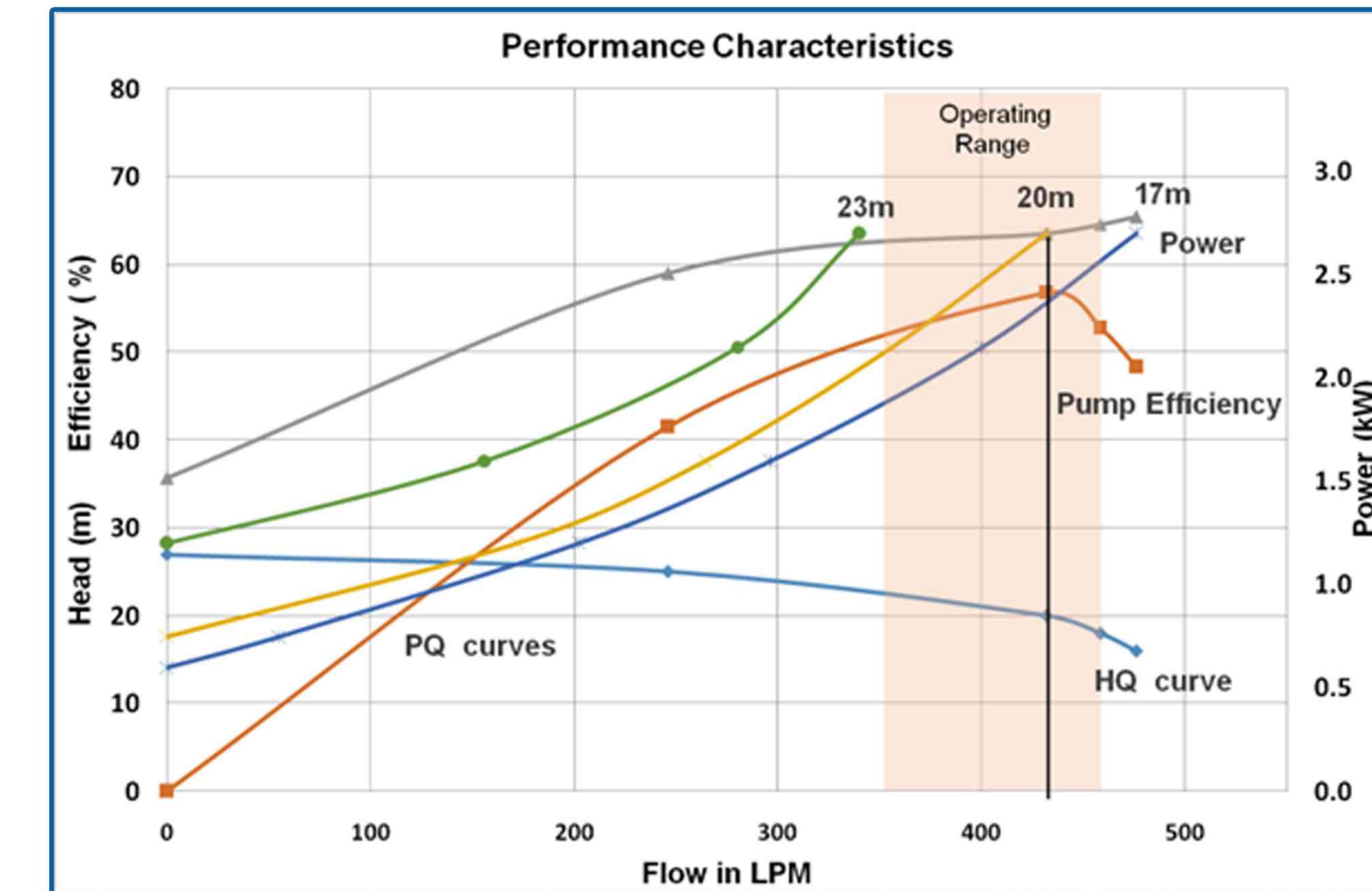
Total Head (m)	Discharge	Solar			Motor			Pump performance			
		Flow (L/m)	Voltage (V)	Current (A)	Power (kW)	Current (A)	Power (kW)	Voltage (V)	Pump Output (kW)	Pump efficiency in %	Overall Eff. (%)
16	0	230	6.9	1.59	6.56	1.51	1.51	159	0	0	0
13	500	231	9.69	2.44	9.82	2.27	2.27	159	1.06	46.75	43.5
10	830.7	232	11.76	2.73	10.64	2.47	2.47	158	1.36	54.9	49.7
8	984	232	11.93	2.77	11.07	2.57	2.57	158	1.29	50.09	46.4
7	1050	232	11.98	2.78	11.12	2.58	2.58	158	1.2	46.59	43.2

Technical Data Sheet :

AC Surface Solar Pump set

Model : SSW3HPAC20M3000Wp

Pump set model: SSW3HPAC10M3000Wp			
Motor Rating	3HP	Motor Voltage (V)	160V
Motor type	AC Surface	Max Current (A)	13A
Pump head (m)	20	Rated RPM	3300
Shut off head (m)	27	Frequency (Hz)	110
Operation Head Range (m)	20-27	Solar DC Voltage (V)	230V-400V
Discharge Capacity LPD	148500	Solar DC current (A)	13A
Motor size	65	Delivery size (mm)	50



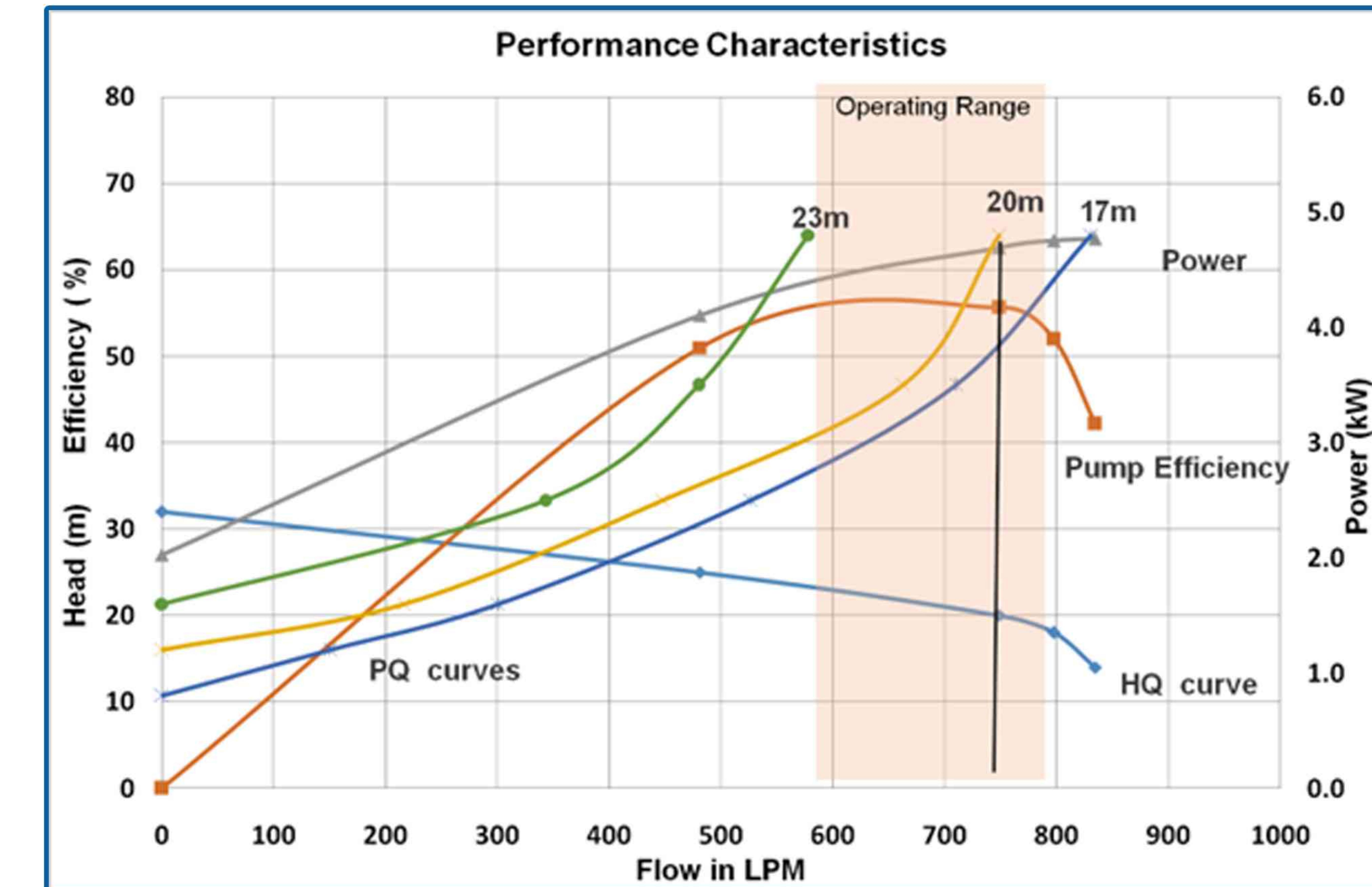
Total Head (m)	Discharge	Solar			Motor			Pump performance			
		Flow (L/m)	Voltage (V)	Current (A)	Power (kW)	Current (A)	Power (kW)	Voltage (V)	Pump Output (kW)	Pump efficiency in %	Overall Eff. (%)
27	0	230	6.58	1.52	1.52	5.32	1.23	141	0	0	0
25	246	231	10.86	2.51	2.51	10.47	2.42	142	1	41.5	40.1
20	432	231	11.68	2.7	2.7	10.77	2.49	159.3	1.41	56.8	52.3
18	458	232	11.81	2.74	2.74	10.99	2.55	159.2	1.35	52.8	49.1
16	476	232	11.98	2.78	2.78	11.07	2.57	160	1.24	48.3	44.8

Technical Data Sheet :

AC Surface Solar Pump set

Model : SSW5HPAC20M4800Wp

Pump set model: SSW5HPAC20M4800Wp			
Motor Rating	5HP	Motor Voltage (V)	380V
Motor type	AC surface	Max Current (A)	13A
Pump head (m)	20	Rated RPM	2880
Shut off head (m)	33	Frequency (Hz)	50 HZ
Operation Head Range (m)	30-33	Solar DC Voltage (V)	380V-600V
Discharge Capacity LPD	264000	Solar DC current (A)	13A
Motor size	75	Delivery size (mm)	65



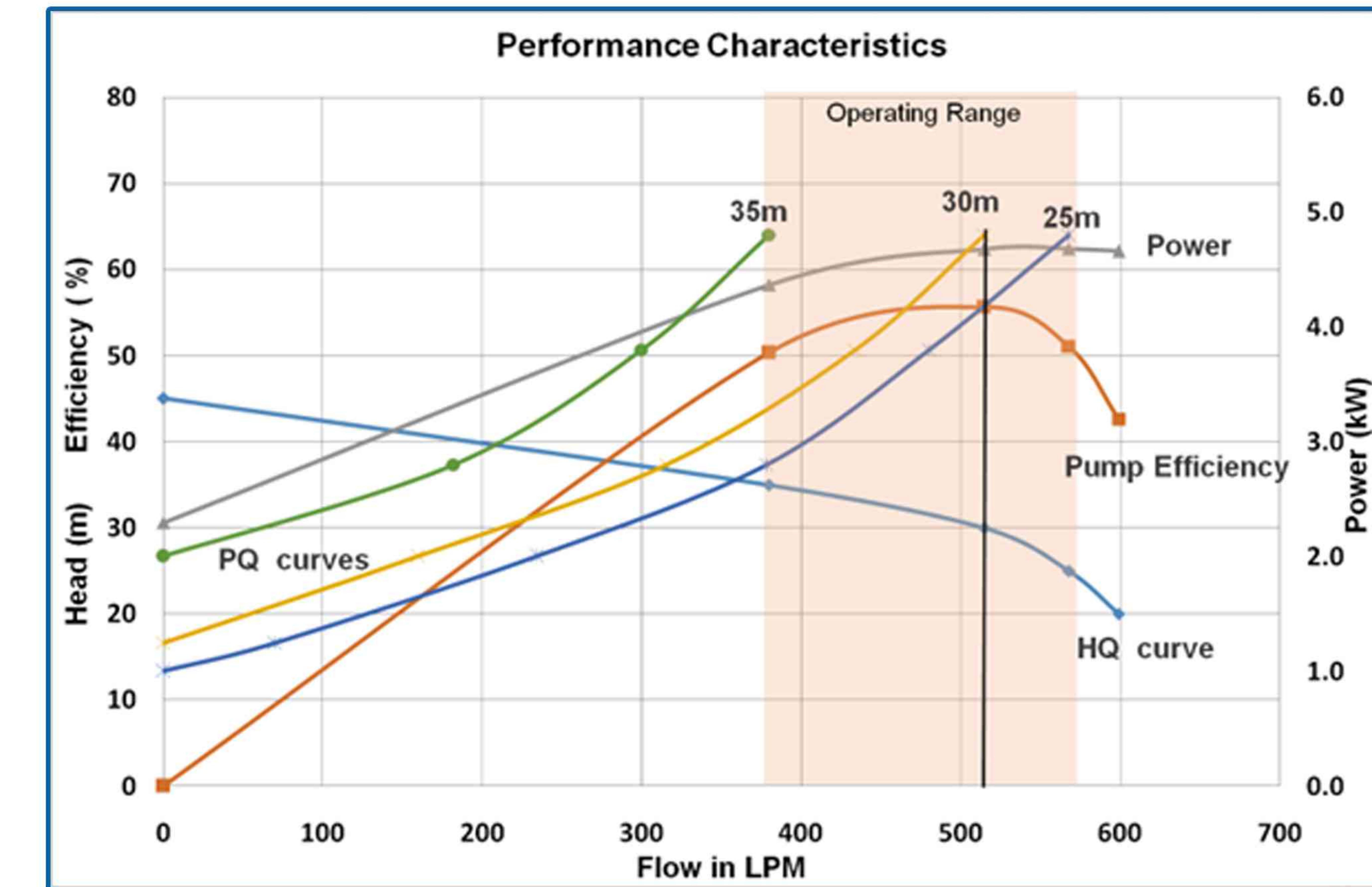
Total Head (m)	Discharge Flow (L/m)	Solar			Motor			Pump performance		
		Voltage (V)	Current (A)	Power (kW)	Current (A)	Power (kW)	Voltage (V)	Pump Output (kW)	Pump efficiency in %	Overall Eff. (%)
32	0	380	5.31	2.02	5.13	1.96	230	0	0	0
25	481	381	10.76	4.1	10.1	3.86	230	1.96	50.96	47.9
20	749	382	12.27	4.69	11.51	4.4	229	2.45	55.63	52.2
18	798	382	12.43	4.75	11.83	4.52	229	2.35	51.93	49.4
14	835	382	12.48	4.77	11.85	4.53	229	1.91	42.17	40.1

Technical Data Sheet :

DC Surface Solar Pump set

Model : SSW5HPDC30M4800Wp

Pump set model: SSW05HP30MDC4800Wp			
Motor Rating	5HP	Motor Voltage (V)	240V
Motor type	DC Surface	Max Current (A)	13A
Pump head (m)	30	Rated RPM	3300
Shut off head (m)	40	Frequency (Hz)	110 HZ
Operation Head Range (m)	30-40	Solar DC Voltage (V)	380V-600V
Discharge Capacity LPD	182400	Solar DC current (A)	13A
Motor size	75	Delivery size (mm)	65



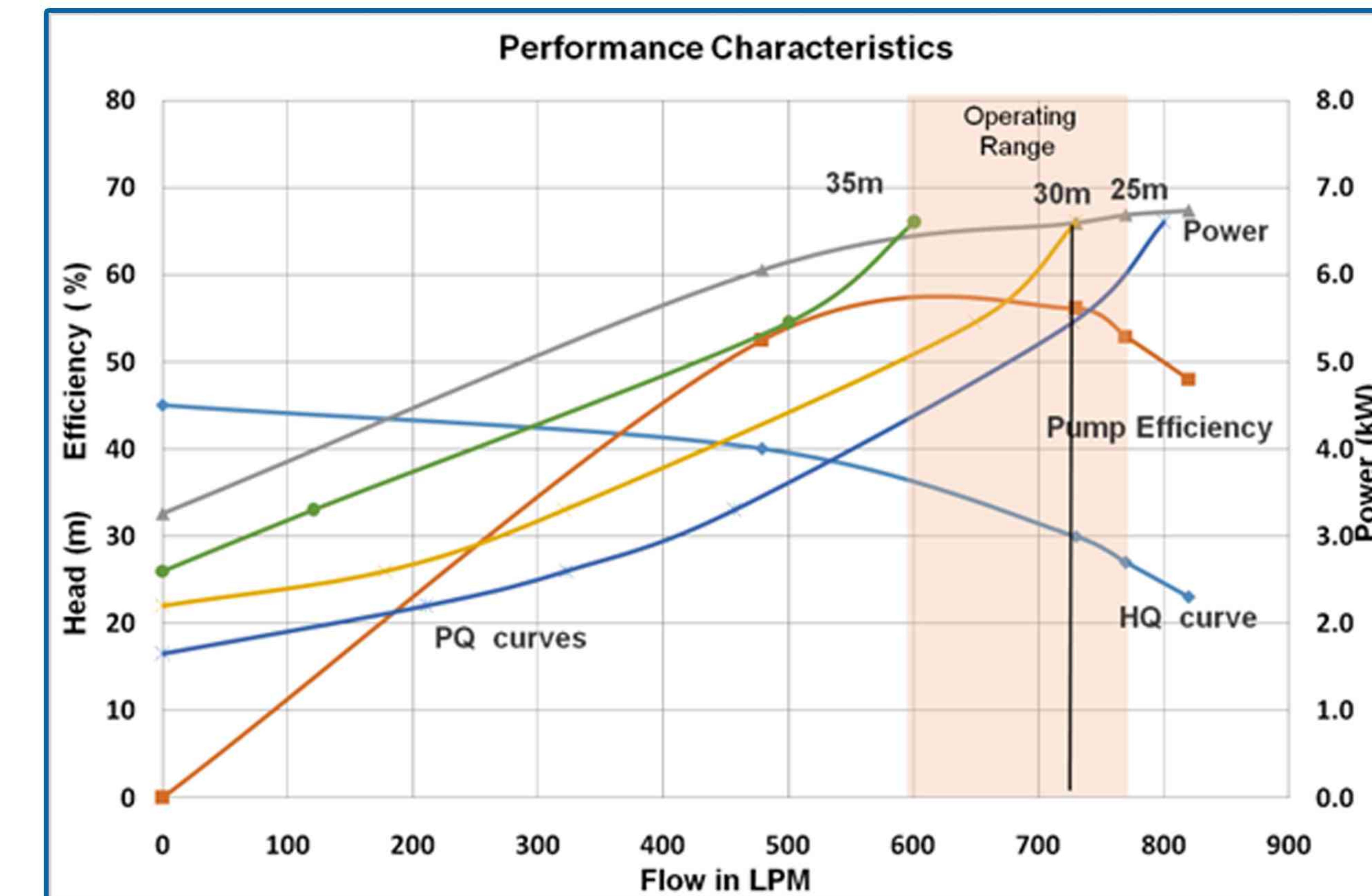
Total Head (m)	Discharge Flow (L/m)	Solar			Motor			Pump performance		
		Voltage (V)	Current (A)	Power (kW)	Current (A)	Power (kW)	Voltage (V)	Pump Output (kW)	Pump efficiency in %	Overall Eff. (%)
45	0	380	6.05	2.3	5.76	2.19	230	0	0	0
35	380	381	11.46	4.37	11.33	4.32	230	2.17	50.33	49.8
30	515	382	12.22	4.67	11.88	4.54	229	2.52	55.61	54
25	568	382	12.25	4.68	11.88	4.54	229	2.32	51.07	49.6
20	599	382	12.27	4.69	12.01	4.59	229	1.96	42.61	42

Technical Data Sheet :

DC Surface Solar Pump set

Model : SSW0.7HPDC30M6750Wp

Pump set model: SSW07.5HP30MDC6750Wp			
Motor Rating	7.5HP	Motor Voltage (V)	330V
Motor type	DC Surface	Max Current (A)	15A
Pump head (m)	30	Rated RPM	3300
Shut off head (m)	45	Frequency (Hz)	110 HZ
Operation Head Range (m)	30-45	Solar DC Voltage (V)	500-800
Discharge Capacity LPD	256500	Solar DC current (A)	15A
Motor size	75	Delivery size (mm)	75



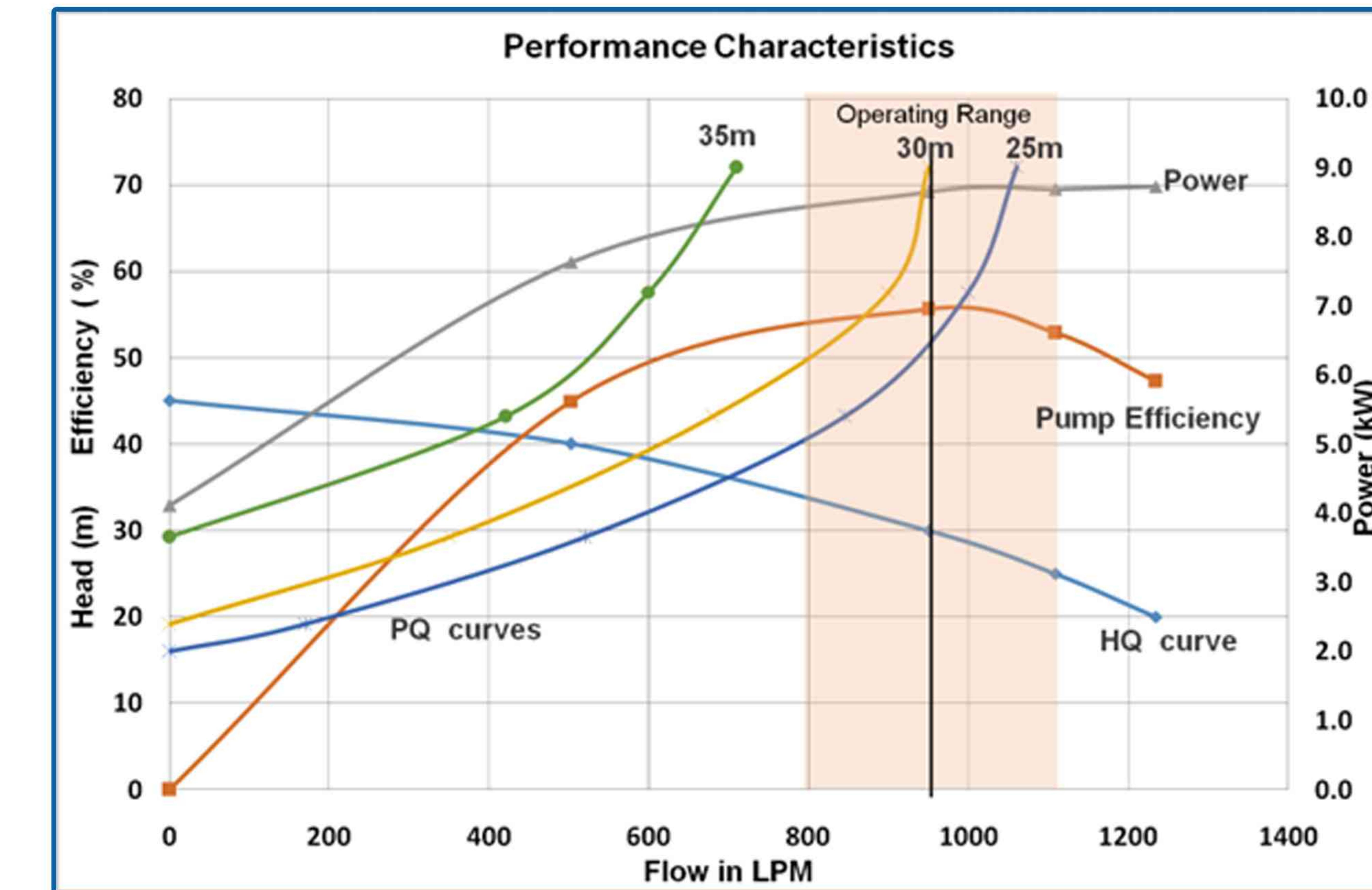
Total Head (m)	Discharge	Solar			Motor			Pump performance		
		Flow (L/m)	Voltage (V)	Current (A)	Power (kW)	Current (A)	Power (kW)	Voltage (V)	Pump Output (kW)	Pump efficiency in %
45	0	500	6.52	3.26	5.9	2.95	298	0	0	0
40	479	501	12.09	6.06	11.91	5.97	295	3.13	52.44	51.7
30	730	502	13.12	6.59	12.7	6.38	295	3.58	56.1	54.3
27	770	502	13.3	6.68	12.78	6.42	295	3.4	52.92	50.8
23	820	502	13.4	6.73	12.8	6.43	295	3.08	48.01	45.8

Technical Data Sheet :

DC Surface Solar Pump set

Model : SSW10HPDC30M9000Wp

Pump set model: SSW10HP30MDC9000Wp			
Motor Rating	10HP	Motor Voltage (V)	480V
Motor type	DC surface	Max Current (A)	15A
Pump head (m)	30	Rated RPM	3300
Shut off head (m)	45	Frequency (Hz)	110 HZ
Operation Head Range (m)	30-45	Solar DC Voltage (V)	560V-800V
Discharge Capacity LPD	342000	Solar DC current (A)	15A
Motor size	100	Delivery size (mm)	75



Total Head (m)	Discharge	Solar			Motor			Pump performance		
	Flow (L/m)	Voltage (V)	Current (A)	Power (kW)	Current (A)	Power (kW)	Voltage (V)	Pump Output (kW)	Pump efficiency in %	Overall Eff. (%)
45	0	560	7.33	4.11	6.96	3.9	373	0	0	0
40	503	561	13.6	7.63	13.03	7.31	376	3.29	44.96	43.1
30	950	564	15.33	8.65	14.84	8.37	378	4.66	55.61	53.8
25	1109	565	15.38	8.69	15.16	8.57	377	4.53	52.87	52.1
20	1235	565	15.43	8.72	15.11	8.54	376	4.04	47.25	46.3

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65/3-1, opposite to Super Gas filling station, near Ravindu Toyota
Car Service centre, Industrial Suburb, Yeswanthpur, Bengaluru,
Karnataka 560022



www.mecwinindia.com



sales@mecwinindia.com



+91 97412 29797



<https://www.linkedin.com/company/mecwin-technologies/>

