

SubDrive Solar Controller - Specifications

	0.55 kW model	1.1 kW model	2.2 kW model				
Controller Model No.	5870300553	5870301113	5870301223				
Output							
Output voltage, max	100 V AC, 3-phase	200 V AC, 3-phase	200 V AC, 3-phase				
Max Amps (RMS)	8.6 A, each phase	6.8 A, each phase	12.5 A, each phase				
Output Frequency	30-60 Hz	30-58 Hz	30-68 Hz				
Efficiency at Max Power	96%	96%	96%				
PV source							
Input Voltage, at mpp	*95 - 330 V DC	**190 - 330 V DC	**190 - 330 V DC				
Max Amps Input	8.7 A DC, continuous	7 A DC, continuous	12 A DC, continuous				
Power at mpp	up to 1400 watts	Up to 2000 watts	up to 3500 watts				
Alternate AC Generator							
Input voltage	230 V AC, single phase	230 V AC, single phase	230 V AC, single phase				
Max Amps (RMS)	9.6 A	16 A	25 A				
Power and VA capability	Follow instruction manual for proper generator sizing data	Follow instruction manual for proper generator sizing data	Follow instruction manual for proper generator sizing data				
For Use With							
Franklin Electric Motor	234902----	234504----	234306----				
SubDrive Solar Pumps (BSPP)	LPM	Stages	Model No.	Stages	Model No.	Stages	Model No.
	18	18	90020504	30	90020508	30	-
	25	13	90020704	30	-	30	90020711
	30	8	90021004	18	90021011	18	90021011
	45	6	90021504	15	90021511	15	90021511
	70	-	.	10	90022511	10	90022511
	100	-	-	10	90023511	10	90023511
	150	-	-	7	90024511	7	90024511
270	-	-	5	90029011	5	90029011	
Controller Size							
Centimeters	L X W X D (53.34 X 25.87 X 21.87 cm)	L X W X D (53.34 X 25.87 X 21.87 cm)	L X W X D (53.34 X 25.87 X 26.31 cm)				
Inches	(21.00" X 10.19" X 8.61")	(21.00" X 10.19" X 8.61")	(21.00" X 10.19" X 10.36")				
Controller Weight							
	19 kg (41 lbs)	19 kg (41 lbs)	22 kg (47 lbs)				
Operating Conditions							
Temperature Range	-25 °C to 50 °C (40 °C max when using AC generator)	-25 °C to 50 °C (40 °C max when using AC generator)	-25 °C to 50 °C (40 °C max when using AC generator)				
Relative Humidity Range	0 to 100% Condensing	0 to 100% Condensing	0 to 100% Condensing				

* Drive will attempt to start the pump/motor at 95 V DC, and attempt to continue operation down to 75 V DC.

** Drive will attempt to start the pump/motor at 190 V DC, and attempt to continue operation down to 150 V DC.

Absolute maximum open circuit voltage input to the controller = 410 Voc for all controller models.