Power Supplies

SPH-W Series

DC Input

Single Output, General-Purpose

SPECIFICATIONS

Part No.			SPH05-30RW	SPH12-16RW	SPH15-13RW	SPH24-8R3W
Output voltage, current*			5V • 30A	12V • 16.6A	15V • 13.3A	24V • 8.3A
Maximum output power		W	150	199.2	199.5	199.2
Input requirements						
Input voltage Edc		V	36 to 72[Rating:48]	36 to 72[Rating:48]	36 to 72[Rating:48]	36 to 72[Rating:48]
Input current		A	6max./3.9typ.[Input 36/48V]	7max./5typ.[Input 36/48V]	7max./5typ.[Input 36/48V]	7max./5typ.[Input 36/48V]
Efficiency		%	80typ.	81typ.	81typ.	83typ.
Output characteristics						
Output voltage		V	5	12	15	24
Voltage variable range		V	4.5 to 5.5	7.2 to 13.2	9 to 16.5	14.4 to 26.4
Maximum output current		A	30	16.6	13.3	8.3
Overvoltage threshold		V	5.8 to 6.9	13.7 to 15.7	17 to 19	27 to 30.5
Overcurrent threshold		A	33 to 40.5	17.4 to 22.4	13.9 to 18	8.7 to 11.2
Voltage stability	Input variation	%	0.2max.(0.1typ.)[Within the input voltage range]		Total variation 2.5max.(1.2typ.)	
	Load variation	%	0.3max.(0.1typ.)[0 to 100% load]			
	Temperature variation	%	2max.(1typ.)[Base plate temperature –20 to +86°C]			
Ripple Ep-p		mV	100max.	150max.	150max.	150max.
Ripple noise Ep-p		mV	200max.	250max.	250max.	300max.
Accessory equipment						
Operation indicator			None			
Overvoltage protection			Voltage shielding type, recovers upon reset.			
Overcurrent protection			Fixed current and voltage threshold type, automatic recovery, set value fixed.			
Overheat protection			Yes			
Remote ON-OFF			Yes			
Remote sensing			Yes			
Current balance			Yes			
Synchronous operation			Yes			
Output voltage external variable function			Yes			
Construction						
External dimensions H×W×L		mm	12.7×58×130			
Weight		g	200max.			
Mounting method			Mount via terminal-containing surface (soldering and bolting).			
Case material			Nonflmmable resin(UL Grade 94V-0)			
Heat sink			Sold separately(Part No.3:JR0AB163)			

* The power supply should not be used outside the derating range. Use of a heat sink and forced air cooling should be considered. Sufficient space should be provided so that the base plate(aluminum surface) temperature is below 85°C when the surrounding environment is less than 60°C.

⚠ Specifications which provide more details for the proper and safe use of the described product are available upon request.
All specifications are subject to change without notice.

TDK