Simple function, 50 to 600W DC-DC converters

Features

- ◆ High Density
- ◆ Wide Range Input
- Output adjustment Capability
- ◆ Remote On/Off
- ◆ Fixed Switching Frequency
- ◆ International Safety Approvals
- ◆ Low component count





Key Market Segments & Applications









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Specifications								
Model		3.3V	5V	12V	15V	24V	28V	48V
Input range	VDC	24V no	m: 18-36, 48	3V nom: 36-7	6V, 110V nor	n: 82-185V, 2	280V nom: 20	0-400V
Output Voltage Adj. Range	VDC	2.97~3.63	4.5~5.5	10.8~13.2	13.5~16.5	21.6~26.4	25.2~30.8	43.2~52.8
Line Regulation	-	0.4% o	r 20mV (whi	chever is gre	ater) over en	tire input rang	ge with consta	int load
Load Regulation	-	0.8% or 4	OmV (whiche	ever is greate	r) from no loa	ad to full load	with constant	t input line
Ripple and Noise	pk-pk	100	mV	150)mV	240mV	280mV	480mV
Series Operation	-			Possible - R	efer to install	ation manua	l	
Over Voltage Protection	%	150 - 180%			125 -	145%		
Overload Protection	%	Approximately 105 - 140%, automatic recovery						
Remote On/Off	-		Low = ON, Open = OFF					
Remote Sensing	-		PH100S, PH150S, PH300S, PH600S models					
Parallel operation	-	PH300S & PH600S only: Requires external circuitry						
Inverter Good signal	-	PH300S & PH600S only: Signal available for status of inverter						
Thermal Protection	-	Internal sensing, self resetting						
Cooling	-						and heatsink	
Operating Temperature Range	°C	Ba					1300 & PH600	0).
					p possible - d			
Storage Temperature	°C		-40	°C to +85°C	(+100°C on I	PH300 & PH	600)	
Temperature Coefficient	-				0.02%/°C			
Isolation	-				AC, Input to			
Isolation Resistance	-				100MOhm a			
Safety Agency Certification (1)	-		UL609	50-1, CSA60	950-1, EN60	950-1 and C	E Mark.	
Warranty	yrs				Two years			

Note: See Installation Manual for full details, test methods of parameters and application notes (1) No safety certification on PH50S48-3.3, PH75S48-3.3, PH150S48-3.3

Nominal Output	Model Selector						
3.3	·	-	•	24V input	48V input	110V input	280V input
3.3	3.3	10.0	33.0	-	PH50S48-3.3	-	PH50S280-3.3
3.3 30.0 99.0 - PH150S48-3.3 - PH150S280-3.3 3.3 100.0 330.0 PH50S280-3.3 PH300S280-3.3 100.0 330.0 PH50S280-5 PH50S110-5 PH50S280-5 PH50S10-5 PH50S280-5 PH50S110-5 PH50S280-5 PH50S10-5 PH50S280-5 PH150S110-5 PH50S280-5 PH150S110-5 PH50S280-5 PH150S110-5 PH50S280-5 PH150S110-5 PH150S280-5 PH150S110-12 PH50S280-5 PH150S110-12 PH50S280-5 PH150S110-12 PH50S280-5 PH150S110-12 PH50S280-12 PH150S110-12 PH150S280-12 PH150S110-13 PH50S280-12 PH50S110-15 PH50S280-15 PH50S280-24 PH50S280-28 P			49.5	-	PH75S48-3.3	-	PH75S280-3.3
3.3 50.0 165.0 PH300S280-3.3 3.3 100.0 330.0 PH300S280-3.3 5.0 10.0 50.0 PH50S24-5 PH50S48-5 PH50S110-5 PH50S280-5 5.0 15.0 75.0 - PH75S48-5 PH75S110-5 PH75S280-5 5.0 20.0 100.0 - PH100S48-5 - PH150S110-5 PH75S280-5 5.0 30.0 150.0 - PH150S48-5 PH150S110-5 PH75S280-5 5.0 50.0 250.0 PH300S280-5 5.0 100.0 500.0 PH30S24-12 PH50S48-12 PH50S110-12 PH50S280-12 12.0 4.2 50.0 PH50S24-12 PH50S48-12 PH75S110-12 PH50S280-12 12.0 6.3 75.0 - PH75S48-12 PH75S110-12 PH75S280-12 12.0 8.4 100.0 - PH100S48-12 PH150S110-12 PH150S280-12 12.0 12.5 150.0 - PH50S24-12 PH50S48-12 PH50S110-12 PH50S280-12 12.0 25.0 300.0 PH30S280-12 PH50S280-12 12.0 50.0 600.0 PH30S280-12 PH50S280-12 15.0 3.4 50.0 PH50S24-15 PH50S48-15 PH50S110-15 PH50S280-12 15.0 3.4 50.0 PH50S24-15 PH50S48-15 PH50S110-15 PH50S280-15 15.0 6.7 100.0 - PH100S48-15 PH50S110-15 PH50S280-15 15.0 6.7 100.0 - PH50S24-15 PH50S48-15 PH50S110-15 PH50S280-15 15.0 10.0 150.0 - PH100S48-15 PH50S110-15 PH50S280-15 15.0 20.0 300.0 PH300S280-15 15.0 40.0 600.0 PH50S280-15 PH50S110-15 PH50S280-15 15.0 40.0 600.0 PH50S280-15 PH50S110-15 PH50S280-15 15.0 40.0 600.0 PH50S280-15 PH50S110-15 PH50S280-15 15.0 40.0 150.0 - PH50S24-24 PH50S48-24 PH50S110-24 PH50S280-15 15.0 40.0 600.0 PH300S280-15 PH50S280-15 PH50S280-15 15.0 40.0 600.0 PH50S280-15 PH50S280-2	3.3	20.0	66.0	-	PH100S48-3.3	-	PH100S280-3.3
3.3 100.0 330.0 PH600S280-3.3 5.0 10.0 50.0 PH50S24-5 PH50S48-5 PH50S110-5 PH50S280-5 5.0 15.0 75.0 - PH75S48-5 PH75S110-5 PH50S280-5 5.0 20.0 100.0 - PH100S48-5 - PH75S110-5 PH750S280-5 5.0 30.0 150.0 - PH150S48-5 PH150S110-5 PH150S280-5 5.0 50.0 250.0 PH600S280-5 5.0 100.0 500.0 PH50S280-5 5.0 100.0 500.0 PH50S280-5 5.0 100.0 500.0 PH600S280-5 5.0 12.0 4.2 50.0 PH50S24-12 PH50S48-12 PH50S110-12 PH50S280-12 5.0 8.4 100.0 - PH100S48-12 PH75S280-12 PH75S280-12 5.0 12.0 8.4 100.0 - PH150S48-12 PH50S110-12 PH50S280-12 5.0 12.0 12.5 150.0 - PH150S48-12 PH50S110-12 PH50S280-12 5.0 12.0 25.0 300.0 PH600S280-15 5.0 50.0 600.0 PH50S28-15 PH50S110-15 PH50S280-12 5.0 50.0 600.0 PH50S28-15 PH50S110-15 PH50S280-15 5.0 5.0 75.0 - PH50S24-15 PH50S48-15 PH50S110-15 PH50S280-15 5.0 6.7 100.0 - PH50S24-15 PH50S48-15 PH75110-15 PH50S280-15 5.0 10.0 150.0 - PH100S48-15 PH50S110-15 PH50S280-15 5.0 20.0 300.0 PH70S48-15 PH50S110-15 PH50S280-15 5.0 20.0 300.0 PH50S28-15 PH50S110-15 PH50S280-15 5.0 20.0 300.0 PH50S28-15 PH50S110-15 PH50S280-15 5.0 20.0 300.0 PH50S28-15 PH50S110-15 PH50S280-15 5.0 40.0 600.0 PH50S28-24 PH50S110-24 PH50S280-24 5.0 40.0 600.0 PH50S28-24 PH50S110-24 PH50S280-24 5.0 40.0 60.0 PH50S28-24 PH50S110-24 PH50S280-24 5.0 60.0 - PH50S28-24 PH50S48-24 PH50S110-24 PH50S280-24 5.0 60.0 - PH50S28-24 PH50S48-28 PH50S110-28 PH50S280-24 5.0 60.0 - PH50S28-28 PH50S48-28 PH50S110-28 PH50S280-28 5.0 5.4 50.0 PH50S28-28 PH50S48-28 PH50S110-28 PH50S280-28 5.0 60.0 - PH50S280-28 PH50S48-28 PH	3.3	30.0	99.0	-	PH150S48-3.3	-	PH150S280-3.3
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Pinout	
Pin Description	Function
-Vin	Negative Input Terminal
+Vin	Positive Input Terminal
+S	Positive Remote sense
-S	Negative Remote sense
+V	Positive Output Terminal
-V	Negative Output Terminal
IOG	Inverter Good Signal
TRIM	Output adjustment trim pin
CNT	On/Off Control Terminal
CS	Current Monitor Signal

Other DC-DC Products			
PH Full Function	50 - 300W, full function versions of PH		
PAQ, PAH, PAF	50 - 700W quarter, half & full bricks		
PX	10-40W, 12-48V input, DC-DC		
CC-E	1.5-30W, 5-48V input, DC-DC		

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