



POWER MATE TECHNOLOGY CO., LTD.

P-DUKE



Innovation

Pursuit of excellence

Improvement

# DC-DC CONVERTERS

高擴充性 · 寬輸入電壓範圍 · 專業客制化設計

High Expandability · Ultra Wide Input Range ·  
Professional Customize Design



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# DC-DC CONVERTERS




高擴充性 · 寬輸入電壓範圍 · 專業客製化設計















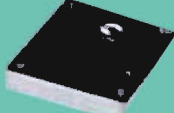





We are proud of ISO-9001 certified and all Power Mate's brand "P-Duke" products are approved to UL/ CUL , VDE, CB report and CE safety requirement.






Furthermore , Power Mate's production is performed under stringent quality control procedure meeting ISO-9001 standards, screening each components for incoming inspection based on MIL-STD-105E standard and 100% product testing prior to shipment to ensure quality and reliability ,Extensive use of the SMD and ICT/ACT technology guarantees highly reliable products .







# QUICK SELECTION GUIDE




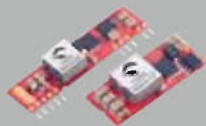





 Trimming available
  Railway system available
  SMD package available



Product Series Number	 <b>DUR01</b>	 <b>DU1P0</b>	 <b>PDS(H)02/W</b>	 <b>PDS(H)03/W</b>	 <b>TEA1P5</b>	 <b>PDL02</b>	 <b>PDL03/W</b>
Vout(Vdc) / Iout(Amps)	3.3V / 303mA 5V / 200mA 12V / 84mA 15V / 66mA	5V / 200mA 12V / 83mA 15V / 67mA ±5V / ±100mA ±12V / ±42mA ±15V / ±33mA	3.3V/500mA 5V/400mA 9V/222mA 12V/167mA 15V/134mA ±5V/±200mA ±12V/±83mA ±15V/±67mA	3.3V/700mA 5V/600mA 9V/333mA 12V/250mA 15V/200mA ±5V/±300mA ±12V/±125mA ±15V/±100mA	3.3V / 400mA 5V / 300mA 12V / 125mA ±12V / ±60mA	3.3V / 500mA 5V / 400mA 9V / 222mA 12V / 167mA 15V / 134mA ±5V / ±200mA ±12V / ±83mA ±15V / ±67mA	3.3V / 700mA 5V / 600mA 9V / 333mA 12V / 250mA 15V / 200mA ±5V / ±300mA ±12V / ±125mA ±15V / ±100mA
Input voltage range (Vdc)	3.0~3.6 4.5~5.5 10.8~13.2 13.5~16.5 21.6~26.4	4.5~5.5 10.8~13.2 13.5~16.5 21.6~26.4	4.5~9 9~18(4.5~18) 18~36(9~36) 36~75(18~75)		4.5~9 9~18 18~36 36~75	4.5~9 9~18 18~36 36~75	4.5~9 9~18(4.5~18) 18~36(9~36) 36~75(18~75)
Isolation	1000VDC	1000VDC/ 3000VDC	1600VDC/ 3000VDC		500VAC	1000VDC	1600VDC/ 3000VDC
Regulated	-	-	Y		Y	Y	
Package size (mm)	11.5 x 6.0 x 10.2	19.6 x 6.1 x 10.2	18.9 x 12.8 x 8.4		28.0 x 16.0 x 7.8	21.8 x 9.1 x 11.2	
Note							
Design to meet Safety Standard (Approval)			IEC60950-1 UL60950-1 EN60950-1				

Product Series Number	 <b>TEM03</b>	 <b>TEN06</b>	 <b>HAE75W</b>	 <b>HAE100</b>	<b>HAE150/W</b>	<b>HAE200/W</b>
Vout(Vdc) / Iout(Amps)	3.3V / 600mA 5V / 600mA 12V / 250mA ±12V / ±125mA	3.3V / 1200mA 5V / 1000mA 12V / 500mA ±12V / ±250mA	5V/15A 12V/6.3A 15V/5A 24V/3.2A 28V/2.7A 48V/1.6A	3.3V/25A 5V/20A 12V/8.4A 15V/6.7A 24V/4.2A 28V/3.6A 48V/2.1A	3.3V/40A~45A 5V/28A~34A 12V/12A~16A 15V/9.5A~13A 24V/6A~8A 28V/5A~7A 48V/3A~4A 53V/3.7A	3.3V/50A~60A 5V/36A~46A 12V/15A~21A 15V/12A~17A 24V/7.5A~10.5A 28V/6.5A~9A 48V/3.7A~5.2A 53V/4.7A
Input voltage range (Vdc)	4.5~9 9~18 18~36 36~75	4.5~9 9~18 18~36 36~75	9~36 18~75	9~18 18~36 36~75	9~22/8.5~22 16.5~36(9~36)(8.5~36) 33~75 (16.5~75) NA (43~160)	
Isolation	500VAC	500VAC	1600VDC/2250VDC(Basic insulation)			
Regulated	Y	Y	Y			
Package size (mm)	28.5 x 20.5 x 8.5	41.0 x 25.8 x 8.5	61.0 x 57.9 x 12.7(HALF-BRICK)			
Note					 	
Design to meet Safety Standard (Approval)	IEC60950-1 UL60950-1 EN60950-1				IEC60950-1 UL60950-1 EN60950-1 EN50155	

Product Series Number	 						
	DR1P5	MKC03	FKC03	FKC05/W	FKC08/W	FKC12/W	FKC15/W
Vout(Vdc) / Iout(Amps)	5V / 300mA 12V / 125mA 15V / 100mA ±5V / 200mA / 100mA ±12V / ±60mA ±15V / ±50mA	3.3V / 500mA 5V / 500mA 12V / 250mA 15V / 200mA ±5V / ±250mA ±12V / ±125mA ±15V / ±100mA	3.3V / 500mA 5V / 500mA 12V / 250mA 15V / 200mA ±5V / ±250mA ±12V / ±125mA ±15V / ±100mA	3.3V / 1000mA 5V / 1000mA 12V / 470mA 15V / 400mA ±5V / ±500mA ±12V / ±230mA ±15V / ±190mA	3.3V / 2000mA (2400mA) 5V / 1500mA (1600mA) 12V / 666mA 15V / 533mA ±5V / ±800mA ±12V / ±333mA ±15V / ±267mA	3.3V / 3500mA 5.1V / 2400mA 12V / 1000mA 15V / 800mA ±5V / ±1200mA ±12V / ±500mA ±15V / ±400mA	3.3V/4000mA 5.1V/3000mA 12V/1250mA 15V/1000mA ±5V/±1500mA ±12V/±625mA ±15V/±500mA
Input voltage range (Vdc)	4.5~5.5 10.8~13.2 21.6~26.4	9~18 18~36 36~75	9~18 18~36 (9~36) 36~75 (18~75)	9~18 18~36 (9~36) 36~75 (18~75) NA (43~160)	9~18 18~36 (9~36) 36~75 (18~75) NA (43~160)	9~18 18~36 (9~36) 36~75 (18~75)	9~18 18~36 (9~36) 36~75 (18~75)
Isolation	500VDC			1600VDC			
Regulated	Y						
Package size (mm)	31.8 x 20.3 x 10.2						
Note							
Design to meet Safety Standard (Approval)	IEC60950-1 UL60950-1 EN60950-1			IEC60950-1 UL60950-1 EN60950-1 EN50155		IEC60950-1 UL60950-1 EN60950-1	

Product Series Number						
	PMKC03	PFKC03	PFKC05	LED15/W	LCD15/W	LCD20/W
Vout(Vdc) / Iout(Amps)	3.3V / 600mA 5V / 600mA 12V / 250mA 15V / 200mA ±5V / ±300mA ±12V / ±125mA ±15V / ±100mA	3.3V / 600mA 5V / 600mA 12V / 250mA 15V / 200mA ±5V / ±300mA ±12V / ±125mA ±15V / ±100mA	3.3V / 1000mA 5V / 1000mA 12V / 470mA 15V / 400mA ±5V / ±500mA ±12V / ±230mA ±15V / ±190mA	3.3V / 3.5A (4A) 5V / 3A 12V / 1.25A (1.3A) 15V / 1A	3.3V / 4000mA 5V / 3000mA 12V / 1300mA 15V / 1000mA ±5V / 1000mA ±12V / ±625mA ±15V / ±500mA	3.3V/4500mA 5V/4000mA 12V/1670mA 15V/1330mA ±12V/±833mA ±15V/±667mA
Input voltage range (Vdc)	4.5~6 9~18 18~36 36~75	9~18 18~36 36~75	9~18 18~36 36~75	18~36 (9~36) 36~75 (18~75)	9~18 18~36 (9~36) 36~75 (18~75)	9~18 18~36 (9~36) 36~75 (18~75)
Isolation	1600VDC	1600VDC / 3000VDC		2250VDC	1600VDC	
Regulated	Y			Y	Y	
Package size (mm)	31.8 x 20.3 x 10.2			27.9 x 23.9 x 8.5	25.4 x 25.4 x 9.9	
Note						
Design to meet Safety Standard (Approval)				IEC60950-1 UL60950-1 EN60950-1		

Product Series Number	 <b>NSR01</b>	 <b>SSR01</b>	 <b>DOS(H)06</b>	 <b>DOS(H)10</b>	 <b>DOS(H)16</b>	 <b>DOS(H)30</b>
Vout(Vdc) / Iout(Amps)	1.5V/1A 1.8V/1A 2.5V/1A 3.3V/1A 5.0V/1A 6.5V/1A 9.0V/1A 12V/1A 15V/1A	2.5V/1A 3.3V/1A 5V/1A 9V/1A 12V/1A 15V/1A	0.75~3.3V / 6A 0.75~5V / 6A	0.75~3.3V / 10A 0.75~5V / 10A	0.75~3.3V / 16A 0.75~5V / 16A	0.8~3.63V / 30A 0.8~3.63V / 20-30A 0.8~5.5V / 25-30A
Input voltage range (Vdc)	4.6~36 6.5~36 8.0~36 10.5~36 13.5~36 16.5~36	3.0~5.5 4.6~36 6.5~36 10.5~36 13.5~36 16.5~36	2.4~5.5 8.3~14			4.5~5.5 6.0~14.0
Isolation	NONE	NONE	NONE			
Regulated	Y	Y	Y			
Package size (mm)	11.7 x 7.5 x 10.1	15.2 x 11.8 x 7.6	20.3 x 11.4 x 6.5 (SMD) 22.9 x 10.2 x 6.0 (SIP)	33.0 x 13.5 x 7.7 (SMD) 50.8 x 12.7 x 7.2 (SIP)		33.0 x 13.5 x 8.8 (SMD) 50.8 x 12.7 x 8.8 (SIP)
Note			 			
Design to meet Safety Standard (Approval)	IEC60950-1 UL60950-1 EN60950-1					

Product Series Number	 <b>QEB50      QEB75      QEB100      QEB125</b>			
Vout(Vdc) / Iout(Amps)	NA(1.8V / 20A) NA(2.5V / 20A) 3.3V / 15A 5V / 10A 12V / 4.17A 15V / 3.33A	NA(1.8V / 25A) NA(2.5V / 25A) 3.3V / 20A 5V / 15A 12V / 6.25A 15V / 5A	NA(1.8V / 30A) NA(2.5V / 30A) 3.3V / 25A 5V / 20A 12V / 8.33A 15V / 6.67A	NA(1.8V / 35A) NA(2.5V / 35A) 3.3V / 30A 5V / 25A 12V / 10.42A 15V / 8.33A
Input voltage range (Vdc)	18~36 36~75			
Isolation	1600VDC			
Regulated	Y			
Package size (mm)	57.9 x 36.8 x 12.7 ( QUARTER-BRICK)			
Note				
Design to meet Safety Standard (Approval)	IEC60950-1 UL60950-1 EN60950-1			



Product Series Number	FDC05/W	FDC10/W	FEC15/W	FED20/W	FED30/W	FED30TW	RED20W
Vout(Vdc) / Iout(Amps)	3.3V / 1000mA 5V / 1000mA 12V / 470mA 15V / 400mA ±5V / ±500mA ±12V / ±230mA ±15V / ±190mA	3.3V / 2000mA (2500mA) 5V / 2000mA 12V / 830mA 15V / 670mA ±5V / ±1000mA ±12V / ±416mA ±15V / ±333mA	3.3V / 4000mA (4500mA) 5V / 3000mA N/A (5.1V / 3000mA) 12V / 1250mA 15V / 1000mA ±5V / ±1500mA ±12V / ±625mA ±15V / ±500mA	1.5V / 6000mA(N/A) 1.8V / 6000mA(N/A) 2.5V / 6000mA(N/A) 3.3V / 5000mA (5500mA) 5V / 4000mA 12V / 1670mA 15V / 1330mA N/A(±5V / ±2000mA) ±12V / ±833mA ±15V / ±667mA	1.5V / 8500mA 2.5V / 8000mA 3.3V / 7500mA 5.0V / 6000mA 5.1V / 6000mA 12V / 2500mA 15V / 2000mA ±5V / ±3000mA ±12V / ±1250mA ±15V / ±1000mA	3.3, ±12V/5000, ±416mA 3.3, ±15V/5000, ±333mA 5, ±12V/4000, ±416mA 5, ±15V/4000, ±333mA	3.3V/4500mA 5V/4000mA 12V/1670mA 15V/1330mA ±12V/±833mA ±15V/±667mA
Input voltage range (Vdc)	9~18 18~36 (9~36) 36~75 (18~75)					9~36 18~75	9~36 18~75 43~160
Isolation	1600VDC						
Regulated	Y						
Package size (mm)	50.8 x 25.4 x 10.2						
Note							
Design to meet Safety Standard (Approval)	IEC60950-1 UL60950-1 EN60950-1					IEC60950-1 UL60950-1 EN60950-1 EN50155	

Product Series Number	FDC15	FDC20/W	FEC30/W	FEC40/W	FEC60
Vout(Vdc) / Iout(Amps)	5V / 3000mA 12V / 1250mA 15V / 1000mA ±5V / ±1500mA ±12V / ±625mA ±15V / ±500mA	3.3V / 4000mA, 5V / 4000mA 12V / 1670mA, 15V / 1330mA ±5V / ±2000mA, ±12V / ±833mA ±15V / ±666mA 3.3, ±12V / 3000, ±300mA(N/A) 3.3, ±15V / 3000, ±250mA(N/A) 5, ±12V / 2000, ±300mA(N/A) 5, ±15V / 2000, ±250mA(N/A)	1.5V / 6000mA (8000mA) 1.8V / 6000mA (8000mA) 2.5V / 6000mA (8000mA) 3.3V / 6000mA 5V / 6000mA 12V / 2500mA 15V / 2000mA ±12V / ±1250mA ±15V / ±1000mA	1.5V / 8000mA(N/A), 1.8V / 8000mA(N/A), 2.5V / 8000mA(N/A), 3.3V / 8000mA (10000mA) 5V / 8000mA, 12V / 3333mA 15V / 2666mA, ±12V / ±1800mA (±1667mA) ±15V / ±1400mA (±1333mA) 3.3, 5V / 4, 4A(N/A) 3.3, ±12V / 6000 ±400mA(N/A) 3.3, ±15V / 6000 ±300mA(N/A) 5, ±12V / 6000 ±400mA(N/A) 5, ±15V / 6000 ±300mA(N/A)	3.3V / 14000mA 5V / 12000mA 12V / 5000mA 15V / 4000mA
Input voltage range (Vdc)	9~36 18~75	9~18, 18~36 (9~36), 36~75 (18~75)	9~18 18~36 (10~40) 36~75 (18~75)	9~18 18~36 (9~36) 36~75 (18~75)	18~36 36~75
Isolation	1600VDC			1600VDC	
Regulated	Y			Y	
Package size (mm)	50.8 x 40.6 x 10.2			50.8 x 50.8 x 10.2	
Note					
Design to meet Safety Standard (Approval)	IEC60950-1 UL60950-1 EN60950-1				

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**P**OWER MATE'S service system provide customers with technology support to be involving in their application system to sort out the best solution for design scale & cost trend, also be keeping available testing sample pieces in the inventory for in time delivery service to satisfy customers on all aspect under the 3S mission....

1. DC/DC converter( P-Duke standard product series and customize design project service )
2. AC/DC power supply ( customize design project service )
3. Contract Manufacturing service

## Power Mate Service Network

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